

U. S. DEPARTMENT OF AGRICULTURE

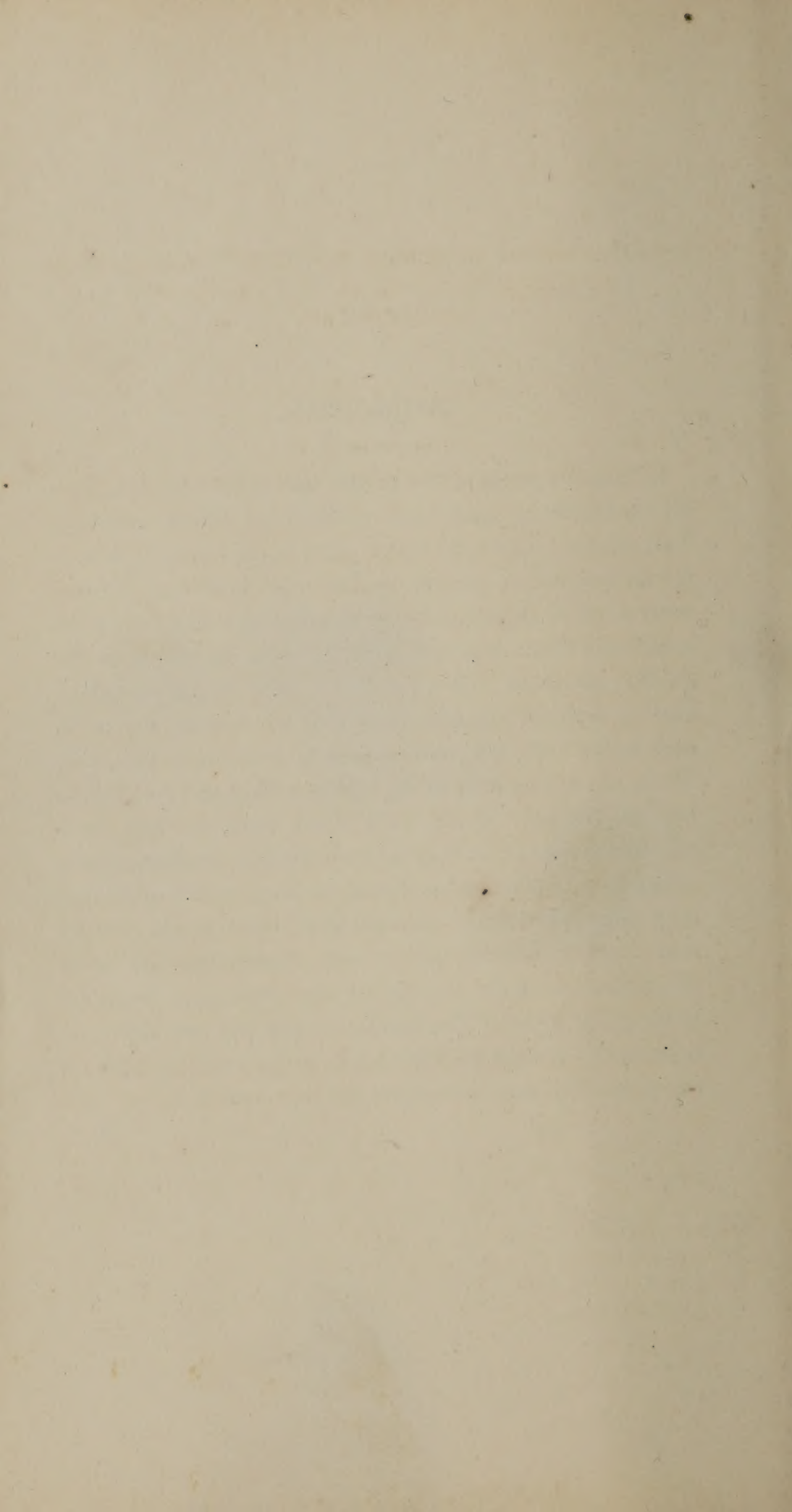
BUREAU OF PLANT INDUSTRY

FIELD NOTES

FORAGE CROP INVESTIGATIONS

INSTRUCTIONS.

In case of a series of row or plat tests it is desirable to have all the constant conditions recorded for future reference. This can be done on the blank pages in the front of the book for all points not covered by the topic headings. In case several sets of experiments are recorded in a single book the conditions governing each may be given by filling in the outlines provided. (See pp. 7-11.) The blank pages may also be used for any additional data which seem desirable, such as the high, low, and mean temperatures, rainfall, date of the last killing frost in the spring, and of the first killing frost in the fall. At the back of the book are blank pages for convenience in making field calculations and temporary notations. Row numbers should be listed in the order that they occur in the field. Records should be made in rate per cent wherever possible and in such manner that the better the variety or strain the higher the percentage recorded. Rules given under "Explanation of heading and abbreviations used" should be followed, in order that the notes on any given crop may be uniform for all the stations.



EXPLANATION OF HEADINGS AND ABBREVIATIONS USED IN TAKING FIELD NOTES IN FORAGE-CROP INVESTIGATIONS.

SIZE OF PLAT.—Stated in fractions of an acre, as $\frac{1}{5}$, $\frac{1}{10}$, etc., or if nursery rows, length of the row in feet.

RATE OF SEEDING.—Pounds per acre.

STAND.—Given in percentages or number of plants in the row.

DATE.—Given in figures, as 9-15 (September 15).

UNIFORMITY.—Given in percentages.

VIGOR.—Strength or abundance of growth: *p.*=poor; *f.*=fair; *g.*=good; *ex.*=excellent.

CONDITION.—If the crop is biennial or perennial, give percentages showing what portion has survived the winter.

FOLIAGE COLOR.—Indicate the shade of green as follows: *g.*=green; *l. g.*=light green; *d. g.*=dark green; *y. g.*=yellowish green; *g. g.*=grayish green; *p. g.*=purplish green. The superlative degree of any of these colors may be indicated by placing *v.* before the color abbreviations, as follows: *v. l. g.*=very light green.

HABIT OF GROWTH.—Described by the following terms: *e.*=erect; *s. e.*=suberect; *d.*=decumbent (prostrate, tip ascending); *p.*=procumbent (trailing); *v.*=vining; *b.*=bushy.

STEMS PER PLANT.—Average number of stems produced from one seed, as 7-8.

MEASUREMENTS.—Given in inches unless otherwise indicated.

DISEASE RESISTANCE.—Give the percentage of noninfection, best determined by estimating the percentage of infection and subtracting this from 100.

DROUGHT RESISTANCE.—Indicate the comparative vigor of plants under conditions of drought, as follows: *p.*=poor; *f.*=fair; *g.*=good; *ex.*=excellent.

LODGING.—Described as *none*, *little*, *medium*, *much*.

SHATTERING.—Described as *none*, *little*, *medium*, *much*.

QUALITY.—Indicated as follows: *p.*=poor; *f.*=fair; *g.*=good; *ex.*=excellent.

ABBREVIATIONS.

GENERAL.—*v.*=very; *med.*=medium; *p.*=poor; *g.*=good; *ex.*=excellent (indicates an unusually high degree, seldom occurring); *l.*=little; *m.*=much; *o*=none or nothing; *lg.*=long; *s.*=short; *sm.*=small; *lrg.*=large; *ab.*=abundant; *few*=few; *cs.*=coarse; *sl.*=slender.

COLOR.—*v.*=violet; *i.*=indigo; *b.*=blue; *g.*=green; *y.*=yellow; *o.*=orange; *r.*=red; *pur.*=purple; *pk.*=pink; *l.*=light (used before a color); *d.*=dark (used before a color).

SHAPE.—*ov.*=oval; *rd.*=round; *obl.*=oblong; *lin.*=linear; *obo.*=obovate; *cor.*=cordate; *cyl.*=cylindrical; *elip.*=elliptical.

Object

Location

Kind of soil

Character of field

Previous crop

Preparation of seed bed

1.

2.

3.

4.

5.

6.

Seeding method

Object

Location

Kind of soil

Character of field

Previous crop

Preparation of seed bed

1.

2.

3.

4.

5.

6.

Seeding method

..... Test of, 19.....

Object

Location

Kind of soil

Character of field

Previous crop

Preparation of seed bed

1.

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Seeding method

..... Test of, 19.....

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..... Test of, 19.....

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Seeding method

Test of _____, 19

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Test of _____, 19

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

• Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

• Seeding method _____

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

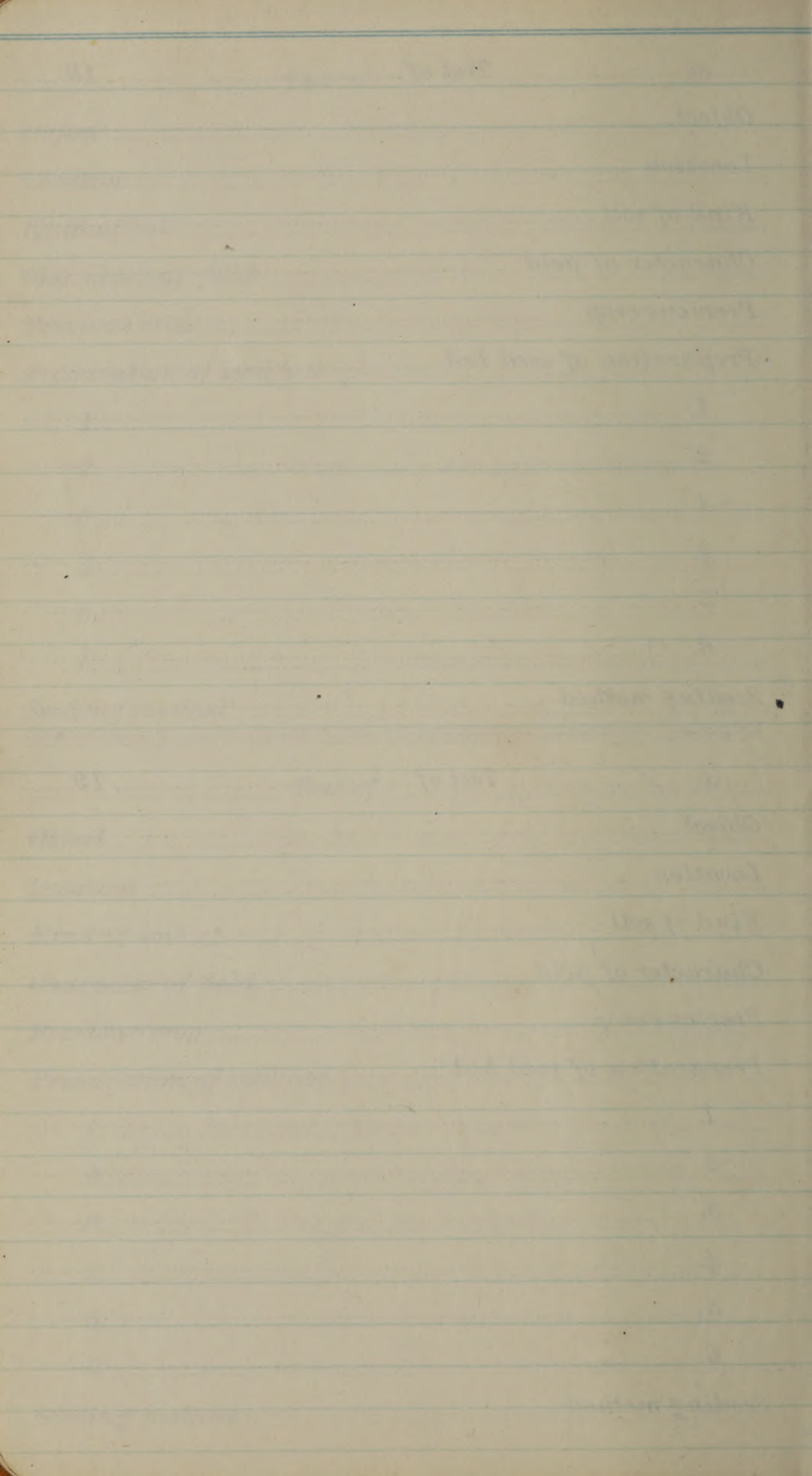
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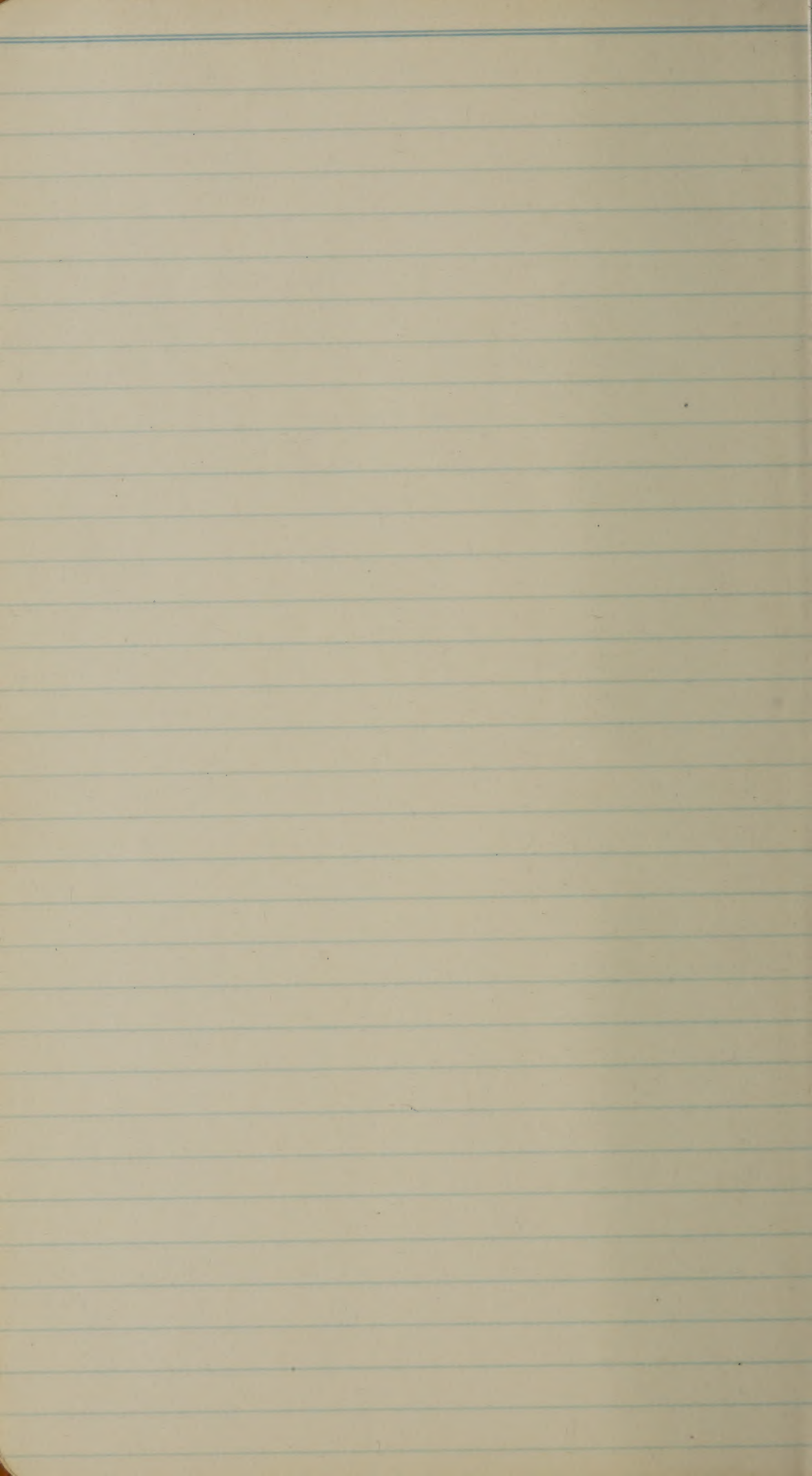
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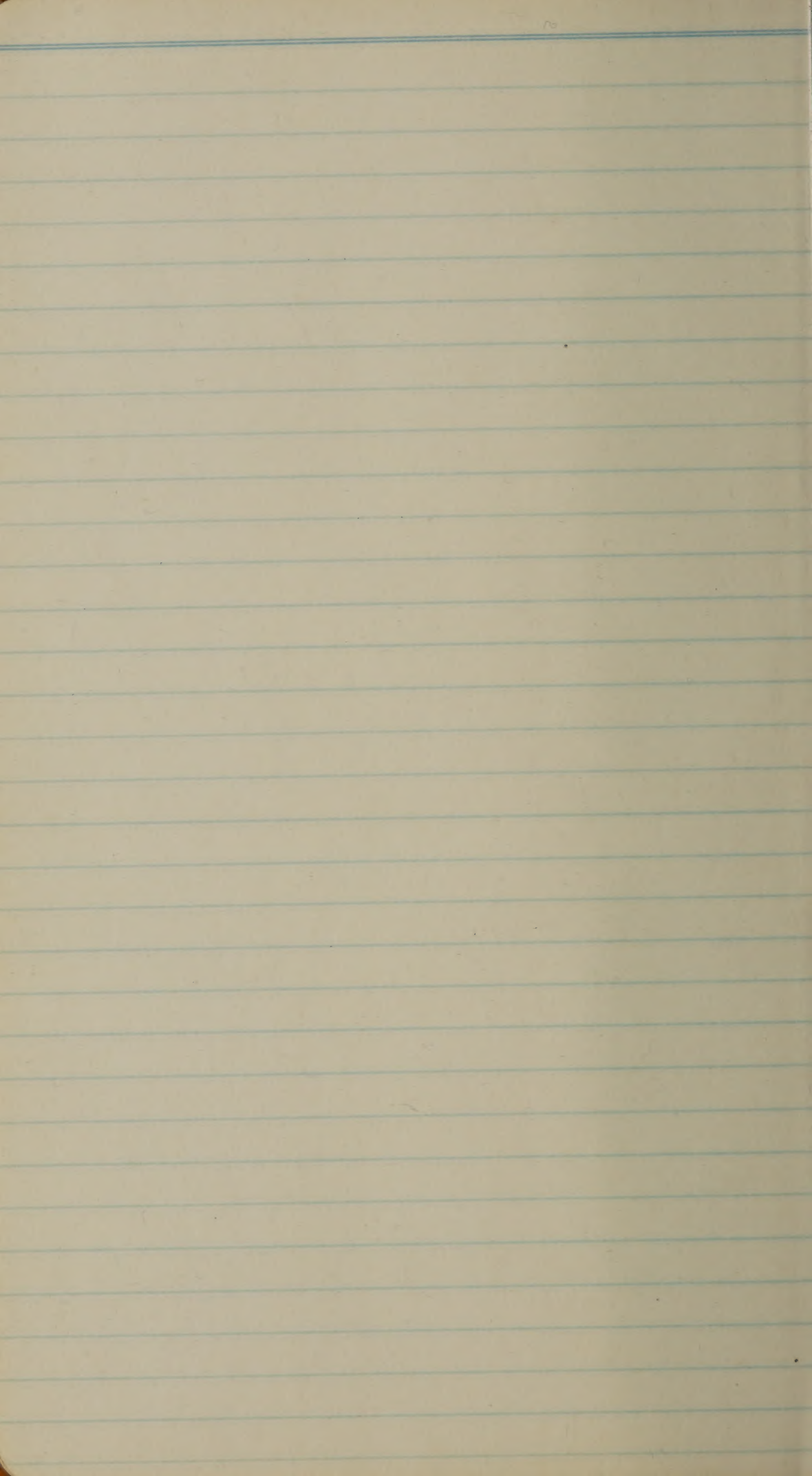
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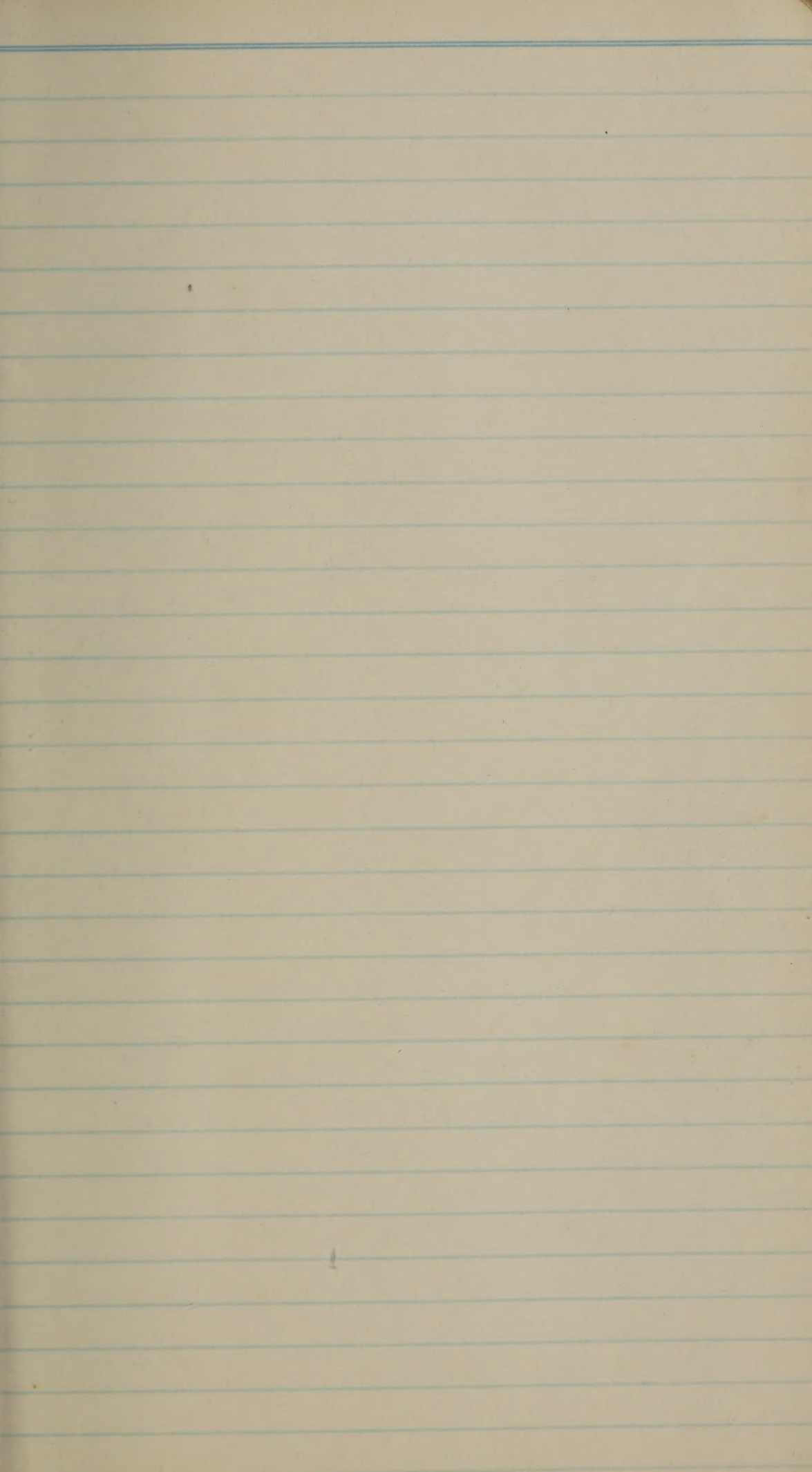
6. _____

Seeding method _____









F.C.O.	Parents		Sown	Date of bloom	Color of Flower		% pods mature
	No.	Female	Male		White	Purple	
							Sept. 15 Oct. 1.
✓	5665-	22888 Buff V. catyang	25088 Red. V. sinen.	6/4/13	8/2	+	
✓	5666-	22888 Buff V. catyang	25088 Red V. sinen	6/4/13	8/7	x	
✓	5667-	22888 Buff V. catyang	25088 Red V. sinen.	6/4/13	7/29	+	
✓	5668-	22888 Buff V. catyang	25088 Red V. sinen	6/4/13	7/28	x	
✓	5669-	22888 Buff V. catyang	25088 Red V. sinen.	6/4/13	8/5	+	
✓	5670-	22888 Buff V. catyang	25088 Red V. sinen.	6/4/13	8/9	+	
✓	5671-	22888 Buff V. catyang	25088 Red V. sinen	6/4/13	8/7	+	
✓	5672-	22888 Buff V. catyang	25088 Red V. sinen.	6/4/13	8/13	+	
✓	5673-	22888 Buff V. catyang	25088 Red V. sinen.	6/4/13	8/7	x	
✓	5674-	22888 Buff V. catyang	25088 Red V. sinen	6/4/13	8/15	+	

✓
 Season Height Habits Pods
 No Length No. seeds

8/26 22 0 250 5-6
 82

8/28 18 0 144 5-6
 85

8/18 18 0 178 5-6
 78

8/19 18 0 207 5-6
 79

8/30 18 0 117 5-6
 87

8/30 14 0 154 5-6
 87

8/30 18 0 164 5-6
 87

9/4 16 0 128 5-6
 92

9/30 18 0 237 5-6
 87

9/4 16 0 156 5-6
 92

Branches			Leaves		Stems	Habit
No.	Length	Persist	No.	Color		
Ma	60	yes	Ma	P.		83.7

Ma	48	yes	Ma	P.		84.7
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Ma	48	yes	Ma	P.		85.7
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Ma	48	yes	Ma	P.		86.7
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Ma	48	yes	Ma	P.		87.7
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Ma	48	yes	Ma	P.		88.7
----	----	-----	----	----	--	------

Ma	48	no	Ma	P.		89.7
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Ma	42	no	Ma	P.		90.7
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Ma	54	Ma	Ma	P.		91.7
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Ma	48	no.	Ma	P.		92.7
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Leaf	Spot	Seed color	wt	
Red	White		g	
L	Me	Black	0Z	
		Some speckled	13.0	+
L	Me	Black	7.25	+
		Some speckled		
L	Me	Black	9.0	+
		Some speckled		
L	Me	Black	10.0	+
		Some speckled		
L	Me	Black	6.25	+
		Some speckled		
L	Me	Black	6.5	+
		Some speckled		
N	N	Black	6.5	+
		Some speckled		
Me	L	Black	5.5	+
		Some speckled		
Me	L	Black	10.75	+
		Some speckled		
N	N	Black	6.5	+
		Some speckled		

F.C.S.	Parents		Sown	Date of bloom	Color of Flower	% pods mature		
No.	Female	Male			White	Purple	Oct. 1	Sept. 15
5675	22888	25088	6/4/13	8/7		x		
	Buff	Red						
	V. catjang	V. sinen	6/4/13					
5676	22888	25088	6/4/13	8/9		+		
	Buff	Red						
	V. catjang	V. sinen						
5677	22888	25088	6/4/13	8/11		+		
	Buff	Red						
	V. catjang	V. sinen						
5678	29267	32862	6/4/13		A			
	Black	Groit						
	V. serqui	V. sinen						
5679	29267	32862	6/4/13		A			
	Black	Groit						
	V. serqui	V. sinen						
5680	29267	32862	6/4/13		A			
	Black	Groit						
	V. serqui	V. sinen						
5681	29267	32862	6/4/13		A			
	Black	Groit						
	V. serqui	V. sinen						
5682	29267	32862	6/4/13		A			
	Black	Groit						
	V. serqui	V. sinen						
5683	29267	32862	6/4/13		A			
	Black	Groit						
	V. serqui	V. sinen						
5684	29267	32862	6/4/13		A			
	Black	Groit						
	V. serqui	V. sinen						

1st
Pods
mature

Season Height Habit / Pods

No. Length No. Seed

8/30 14 0 145 5-6
918/29 16 0 161 5-6 +
959/4 18 0 232 5-6
97

Branches		Leaves		1st. Pobs	Mature	Stems
No	length	No.	Persist			color
Ma	36	Ma	yes			P

Ma	54	Ma	no			P
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Ma	60	Ma	yes			P
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Leaf	Spot	Seed Color	wt of seed dz.	
Red	White			
L	L	Black Some Speckled	6.50	+
Me	Me	Black Some Speckled	7.5	+
L	Me	Black Some Speckled	11.0	+

F.C.I.	Parents		Sown	Date of Bloom	Color of Flower	% Pods mature	
						White	Purple
No.	Female	Male				Sent. 15	Oct. 1.
5685	29267 Black V. sergii	32862 Groit V. sergii	6/4/13		A		
5686	17861 Black Soybean Jet	17275 Str. yellow Soybean	6/4/13				
5687	17861 Black Soybean Jet	17275 Str. yellow Soybean	6/4/13				
5688	29267- Black V. sergii	32862 Groit	6/4/13	8/23		+	
5689	29267- Black V. sergii	32862 Groit	6/4/13	8/16		+	
5690	29267- Black V. sergii	32862 Groit	6/4/13	8/21		+	
5691	29267- Black V. sergii	32862 Groit	6/4/13	8/25		+	
5692	29267- Black V. sergii	32862 Groit	6/4/13	N G			
5693	29267- Black V. sergii	32862 Groit	6/4/13	8/25		+	
5694	17261 Green Soybean Guelph	32862 Groit	6/4/13				

Season Height Habit

Pods

No. Length No. Seed

9/16 16 ✓ 137 10-12

104

9/9 16 ✓ 153 10-14

97

9/16 12 ✓ 71 11-13

104

9/16 14 ✓ 63 11-13

104

9/22 14 ✓ 122 10-12

110

Branches	Leaves	1st Pods	Color
No	Length	No. Persist	Stem

Mar	120	yes	P
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Ma	108	yes	P
Ma	8	yes	P

Ma	84	yes	P
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Mo	96	yes	P
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Mr	96	yes	P
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Leaf	Spot	Seed	Wt g	Sum Total	Pods	Pods
Red	White	Color				

Me	L	Black Speckled Grit markings	10.25	+	137	
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Me	Me	Black Speckled Grit markings	13.0	+	153	
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Me	L	Black Speckled Grit markings	5.50	+	71	
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L	L	Black Speckled Grit markings	6.00	+	63	
---	---	------------------------------------	------	---	----	--

Me	Me	Black Speckled Grit markings	9.00	15	137	
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F.C.I. No.	Parents		Date of Sown bloom	Color of Flower	% Pods mature	
	Female	Male			White	Purple
					Sent. 15	Oct. 1
+5695-	29267 Black V. esquin	32861 Iron V. sinen	6/4/13	8/23	+	
+5696-	17261 Green Soy bean Guelph	22876 Str. yell Soy bean	6/4/13			
+5697-	29267 Black V. esquin	32861 Buff V. sinen	6/4/13	8/25	+	
+5698/	29267 Black V. esquin	32861 Buff V. sinen	6/4/13	8/21	+	
5699	17261 Green Soy bean Guelph	22876 Str. yellow Soy bean	6/4/13			
5700	17261 Green Soy bean Guelph	22876 Str. yell. Soy bean	6/4/13			
7201-	33439 New Era V. sinen	25088 Maroon V. sinen	6/4/13	8/31	x	
7202-	33439 New Era V. sinen	25088 Maroon V. sinen	6/4/13	7/31	x	
7203-	33439 New Era V. sinen	25088 Maroon V. sinen	6/4/13	7/22	x	
7204-	33439 New Era V. sinen	25088 Maroon V. sinen	6/4/13	8/1	x	

1st Pods

Mature Season Height Pods

		No	Length	No. seeds
9/16	14	80	10-12	

9/16	12	53	10-12	
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9/22	14	51	11-13	
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8/20	18	159	6.5-7.5	
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8/22	18	130	7-8	
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8/12	18	174	7-8	
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8/30	14	89	7-8	
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Branches		Leaves		Habit	Color
No.	Length	No.	Persist		Stems
Ma	96	Ma	yes	V	P

Ma	120	Ma	yes	V	P
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Ma	120	Ma	yes	V	P
----	-----	----	-----	---	---

Ma	60		yes	O	P
----	----	--	-----	---	---

Ma	60		yes	O	P
----	----	--	-----	---	---

Ma	60		yes	O	P
----	----	--	-----	---	---

Ma	54		yes	O	P
----	----	--	-----	---	---

Leaf	Seed	Color	Weight	Notes
Leaf	Seed	Color	Weight	
Red	White		0.2	
L	L	Black	6.75	+
		Some speckled		

Me	Me	Black	4.0	+
		Some speckled		

L	L	Black	3.5	+
		Some speckled		

Me	Me	Neutra	8.5	+
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Me	Me	Neutra	7.5	+
----	----	--------	-----	---

Me	Me	Neutra	10.25	x
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L	Me	Neutra	6.5	+
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F.C.O. Parents			Date of Sown bloom		Color of Flower	% Pods mature	
No.	Female	Male			White Purple	Sent. 15	Oct. 1
7206-	33439	25088	6/4/13	8/6	+		
F	Ken Era	Maroon					
OK	V. sinen	V. sinen					
7207-	33439	25088	6/4/13	8/4	+		
OK	Ken Era	Maroon					
	V. sinen	V. sinen					
7208-	33439	25088	6/4/13	8/2	x		
x	Ken Era	Maroon					
	V. sinen	V. sinen					
7209-	33439	25088	6/4/13	8/9	+		
x	Ken Era	Maroon					
	V. sinen	V. sinen					
7210-	33439	25088	6/4/13	8/4	+		
x	Ken Era	Maroon					
	V. sinen	V. sinen					
7211-	33439	25088	6/4/13	7/31	x		
x	Ken Era	Maroon					
	V. sinen	V. sinen					
7212-	33439	25088	6/4/13	7/30	+		
OK	Ken Era	Maroon					
	V. sinen	V. sinen					
7213-	33439	25088	6/4/13	7/30	+		
x	Ken Era	Maroon					
	V. sinen	V. sinen					
7214-	33439	25088	6/4/13	7/31	+		
x	Ken Era	Maroon					
	V. sinen	V. sinen					
7215-	33439	25088	6/4/13	7/22	x		
x	Ken Era	Maroon					
	V. sinen	V. sinen					

1st Pods
mature Season Height Pods

8/30 16 102 6.5-7.5
87

8/30 16 122 7-8
87

8/25 16 136 6.5-7.5
82

9/2 18 91 6.5-8
90

8/27 18 113 7-8
84

8/27 16 132 6.5-7.5
84

8/19 16 169 7-8
76

8/18 183 6.5-7.5
75

8/23 16 111 7-8
80

8/11 155 6.5-7.5
66

Branches		Leaves		Habit	Color
No.	Length	No.	Persist		Stems
Ma	48	Ma	yes	H.B.	P

Ma	72	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	72	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	72	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	72	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	36	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	72	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	72	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	48	Ma	yes	H.B.	P
----	----	----	-----	------	---

Ma	72	Ma	yes	B	P
----	----	----	-----	---	---

Leaf	Spot	Seed color	Wt of seed		^{10/23/13} Green Pods	Total Pods
Red	White		0.2			
L	L	New Era	6.0	+	—	102
L	L	New Era	7.75		—	122
Mm	Mm	New Era	9.25		15	151
L	L	New Era	6.0	*	—	91
Mm	L	New Era	7.75	+	—	113
L	L	New Era	8.25	X	—	132
L	L	New Era	10.50			169
L	L	New Era	10.25	+		183
L	Mm	New Era	7.75	+		111
L	Mm	New Era	8.50	+	7	155

F.C.I. No.	Parents		Sown	Date of bloom	Color of Fls.		% Pods mature
	Female	Male			White	Purple	
7216	33439	25088	6/4/13	7/22		X	
	Ken Era	Maroon					
	V. sinen.	V. sinen					
+7217	29267	32861	6/4/13	8/28		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7218	29267	32861	6/4/13	8/6		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7219	29267	32861	6/4/13	8/11		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7220	29267	32861	6/4/13	8/26		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7221	29267	32861	6/4/13	8/23		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7222	29267	32861	6/4/13	8/23		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7223	29267	32861	6/4/13	8/26		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7224	29267	32861	6/4/13	8/27		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					
+7225	29267	32861	6/4/13	8/9		+	
	Black	Buff					
	V. esqui.	V. sinen					
		Iron					

1st. Pods

mature Season Height Pods

No. Length No. Seed

8/30 16 105 7-8

87

9/22 14 76 9-12

110

9/8 14 96 9-12

96

9/8 14 99 9-12

96

9/22 14 38 9-12

110

9/16 14 92 9-12

9/16 14 123 8-10

9/22 14 92 10-11

9/16 12 67 10-12

9/16 12 90 9-10.5

Branches		Leaves		Habit	Color
No	Length	No.	Persist		Stems
Ma		Ma	yes	B	P

Ma	96		yes	V	P
----	----	--	-----	---	---

Ma	96		yes	V	P
----	----	--	-----	---	---

Ma	96		yes	V	P
----	----	--	-----	---	---

Ma	96		yes	V	P
----	----	--	-----	---	---

Ma	96		Ma	V	P
----	----	--	----	---	---

Ma	96		Ma	V	P
----	----	--	----	---	---

Ma	96		Me	V	P
----	----	--	----	---	---

Ma	96		Me	V	G
----	----	--	----	---	---

Ma	120			V	P
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Leaf	Spot	Seed color	wt of Seed	$\frac{10}{2} \frac{1}{13}$ Green Pods	Total Pods
Red	White		lb.		
L	Much	New era	7.25	8	113
L	Me	Black	6.0	+	76
L	Me	Black Some speckled	7.25	+	96
L	Me	Black Some speckled	7.5	+	99
L	Me	Black Some speckled	2.75	+	38
L	Me	Black Some speckled.	7.0	+	92
L	Me	Black Some speckled	9.0	+	123
L	Me	Black Speckled	7.00	8	100
L	Me	Black Some speckled	5.5	+	67
L	Me	Black Some speckled	7.75	+	90

F.C.D. Parents			Date of Sown bloom	Color of Fls.	% Pods mature
No.	Female	Male		White Purple	Sept. 15 Oct. 1.
7226	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 8/4		+
7227	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 8/6		+
7228	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 8/4		+
7229	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 8/2		+
7230	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 8/2		+
7231	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 7/22		X
7232	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 7/31		X
7233	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 7/29		X
7234	29282 Early Buff V. sinen	22888 V. catjang Buff	6/4/13 7/24		X
7235	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13 8/4		+

12 Pods

mature	Season	Height	Pods	
		In.	No.	Length No. Seed
8/27		14	158	4.5-5.5

14

8/27	14	163	5-6
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8/27	14	175	4.5-5½
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8/25	14	141	4.5-5.5
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8/25	14	172	5½-6.5
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8/12	18	271	5-6
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8/25	18	239	5-6
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8/19	14	215	4½-5½
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8/22	18	289	4.5-5.5
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8/27	14	175	4.5-5.5
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Branches		Leaves		Habit	Color
No.	Length	No.	Persist		Stems
Ma	36		yes	B	P
Ma	36				

Ma	36		yes	B	P
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Ma	36		yes	B	P
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Ma	36		yes	B	P
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Ma	36		yes	B	P
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Ma	36	Ma	yes	O	P
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Ma	48	Ma	no	O	P
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Ma	36		yes	B	P
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Ma	48		yes	B	P
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Ma	48		yes	B	P
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Leaf	Spot	Seed color	Wt Seed kg.	
Red	White			
L	Min	Clay	4.5	+

Min	L	Clay	5.0	+
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Min	L	Clay	5.5	+
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Min	Me	Clay	4.5	+
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Min	L	Clay	5.5	+
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Min	me	Clay	8.0	+
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N	N	Clay.	6.25	+
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Min.	L	Clay	7.25	+
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Min.	L	Clay	8.75	+
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Min	N	Clay	5.5	+
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F.C.I. No.	Parents		Sown	Date of bloom	Flower Color		% Pods mature
	Female	Male			White	Purple	
7236-	29282	22888	6/4/13	7/31		x	
x	Early Buff	Buff					
x	V. sinensis	V. catjang					
7237-	29282	32861	6/4/13	8/22		x	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7238-	29282	32861	6/4/13	8/22		x	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7239-	29282	32861	6/4/13	8/22		+	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7240-	29282	32861	6/4/13	8/29		+	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7241-	29282	32861	6/4/13	8/28		+	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7242-	29282	32861	6/4/13	8/21		+	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7243-	29282	32861	6/4/13	8/21		+	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7244-	29282	32861	6/4/13	8/25		+	
	Early Buff	Buff					
	V. sinensis	V. sinensis					
		Iron					
7245-	29282	32887	6/4/13	8/23		+	
	Early Buff	Brabham					
	V. sinensis	V. sinensis					

1st. Pods

mature	Season	Height	Pods	
			No.	Length No. Seed
8/27		18	156	5-6
9/13			80	7-8
9/22		16	78	6-7
9/22		16	90	6.5-7.5
9/26		16	40	6.5-7.5
9/27		16	15	6-7
9/22		16	52	6.5-7.5
9/13		16	72	6.5-7.5
9/22		16	45	7-8
9/16		16	83	6-7

Branches		Leaves		Habit	Color Breadth of mass
No.	Length	No.	Persist		Stems
ma	42	ma	no	B	p
ma	96	ma	ho	V	p
ma	96	ma	no	V	p
ma	96	ma	ho	V	p
ma	96	ma	ho	V	p
ma	96	ma	no	V	p
ma	96	ma	me	v	p
ma	96	ma	me	V	p
ma	96	ma	me	V	o
ma	96	ma	yo	o	p

Leaf	Spot	Seed Color	Wb 7 Seed	Green Pods	Total Pods
Red	White	Clay	02 4.25 +	10/31	156
me	mm	Clay	5.50 +	23	103
me	mm	Clay	5.00	25	103
me	mm	Clay	5.50	25	115
me	mm	Buff Clay	2.75	50	90
me	mm	Buff & Clay	1.25 +	60	75
me	mm	Buff & Clay	3.25	30	82
me	mm	Clay	4.00	25	100
me	mm	Clay	3.00	80	125
	mm				
mm	me	Prabham	4.50	12	95

F.C.D. Parents			Date Sown ^{or} bloom		Flower Color	% Pods mature
No.	Female	Male			White Purple	Sept. 15 Oct. 1
7246-	29282 Early Buff V. rinen	32887 Brabham V. rinen	6/4/13	8/20	+	
7247-	29282 Early Buff V. rinen	32887 Brabham V. rinen	6/4/13	8/20	+	
7248-	29282 Early Buff V. rinen	32887 Brabham V. rinen	6/4/13	9/2	+	
7249-	29282 Early Buff V. rinen	32887 Brabham V. rinen	6/4/13	8/21	+	
7250-	29282 Early Buff V. rinen	32887 Brabham V. rinen	6/4/13	8/25	+	
7251-	29282 Early Buff V. rinen	25088 Maroon V. rinen	6/4/13	8/30	+	
7252-	29282 Early Buff V. rinen	25088 Maroon V. rinen	6/4/13	8/30	+	
7253-	29282 Early Buff V. rinen	25088 Maroon V. rinen	6/4/13	8/25	+	
7254-	29282 Early Buff V. rinen	25088 Maroon V. rinen	6/4/13	8/28	+	
7255-	29282 Early Buff V. rinen	25088 Maroon V. rinen	6/4/13	8/29	+	

1st Pods

mature Season Height

Pods

		No.	Length	No. Seed
9/13	18	75	5.5-6.5	

9/13	14	96	5.5-6.5	
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	20	40	6-7	
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9/9	20	79	6-7	
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9/16	20	73	5-6	
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9/21	20	35	7-8	
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9/27	20	51	7-8	
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9/24	20	58	7-8	
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9/24	20	59	7-8	
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9/27	20	49	7-8	
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Branches		Leaves		Habit	Crn Breadth of mass stems
No.	Length	No.	Persist		P
Ma	72	Ma	Me	0	P
Ma	96	Ma	yes	0	P
Ma	96	Ma	yes	0	P
Ma	96	Ma	yes	0	P
Ma	96	Ma	yes	0	
Ma	72	Ma	no	0	P
Ma	72	Ma	no	0	P
Ma	72	Ma	no	0	P
Ma	72	Ma	no	0	P
Ma	72	Ma	no	0	P

		WT of Seed		Green Total Pods Pods	
Leaf Spot	Seed Color				
Red White		02		10/1	
Mm	L	Bratham	4.5	+	75
Me	L	Bratham	6.25	x	96
Me	Me	Bratham	2.00	22	62
Me	Me	Bratham	4.75	2	81
Me	Me	Bratham	4.00	22	95
Me	Me	Buff clay	2.75	50	85
Me	Me	Buff clay	3.75	80	131
Me	Me	Buff Clay	4.00	34	92
Me	Me	Buff Clay	4.00	58	117
Me	Me	Buff Clay	3.25	68	117

F.C.O. No.	Parents		Sown	Date of bloom	Flower Color		% Pods mature	
	Female	Male			White	Purple	Sept. 15	Oct. 1
7256-	29282 Early Buff V. sinen.	25088 Maroon V. sinen.	6/4/13	9/2		+		
7257-	29282 Early Buff V. sinen.	25088 Maroon V. sinen.	6/4/13	8/29		+		
7258-	29282 Early Buff V. sinen.	25088 Maroon V. sinen.	6/4/13	8/29		+		
7259-	29282 Early Buff V. sinen.	25088 Maroon V. sinen.	6/4/13	9/1		+		
7260-	29282 Early Buff V. sinen.	25088 Maroon V. sinen.	6/4/13	8/29		+		
7261-	29282 Early Buff V. sinen.	25088 Maroon V. sinen.	6/4/13	8/30		+		
7262-	29267 Black V. esqui.	32862 Groot V. sinen.	6/4/13	8/20		+		
7263-	29267 Black V. esqui.	32862 Groot V. sinen.	6/4/13	8/21		+		
7264-	29267 Black V. esqui.	32862 Groot V. sinen.	6/4/13	8/25		+		
7265-	29267 Black V. esqui.	32862 Groot V. sinen.	6/4/13	8/25		+		

1st Pods

mature Season Height Pods

		No.	length	No. Seed
9/27	22	70	8-9	

9/27	18	67	6.5-7.5	
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9/23	18	119	7-8	
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9/27	18	33	6.5-7.5	
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9/23	18	83	7-8	
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9/27	18	74	7-8	
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9/16	12	61	10-12	
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9/16	16	84	10-12	
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9/16	14	96	10-12	
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9/16	12	51	10-12	
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Branches		Leaves		Habit	Color Breadth of mass
No.	Length	No.	Persist		Stems
Ma 94		Ma	No		P
Ma 72		Ma	No	0	G
Ma 72		ma	No	0	Gr
Ma 42		Ma	No	0	P
Ma 72		Ma	No	0	P
Ma 96		ma	No	0	P
Ma 84		Ma	Me	V.	P
Ma 84		Ma	No	V	P
Ma 84		Ma	No	V	P
Me 120		Me	No	V	P

Leaf Spot	Seed Color	WT. of seed	Sum Pods	Total Pods
Red mm	White mm	0.2 5.25	120	190
	Buff Clay			
mm	mm	5.00	76	143
	Buff Clay			
Me	mm	9.25	82	201
	Buff Clay			
mm	Me	2.75 +		33
mm	mm	6.50	29	112
	Clay Buff			
Me	mm	6.00	40	114
	Clay Buff			
L	mm	5.25 +	—	61
	Black Speckled Groat markings			
L	mm	6.5 +	—	84
	Black Speckled Groat markings			
L	mm	6.5 +	—	96
	Black Speckled Groat markings			
Me	mm	4.25 +	—	51
	Black Speckled Groat markings			

F.C.I. Parents			Date of bloom		Date of bloom		Flower Color	
No.	Female	Male					White	Purple
7266	29267	32862	6/4/13	N			Sept. 15	Oct. 1
	Black	groit		G				
	V. resqui	V. ainen						
7267	29267	32862	6/4/13	8/23			+	
	Black	groit						
	V. resqui	V. ainen						
7268	29267	32862	6/4/13	8/22			+	
	Black	groit						
	V. resqui	V. ainen						
7269	29267	32862	6/4/13	N				
	Black	groit		G				
	V. resqui	V. ainen						
7270	29267	32862	6/4/13	N				
	Black	groit		G				
	V. resqui	V. ainen						
7271	32887	29282	6/4/13	8/4			+	
X	Brabham	Early Buff						
	V. ainen	V. ainen						
7272	32887	29282	6/4/13	8/6			+	
+	Brabham	Early Buff						
	V. ainen	V. ainen						
7273	32887	29282	6/4/13	8/7			X	
X	Brabham	Early Buff						
	V. ainen	V. ainen						
7274	32887	29282	6/4/13	8/4			+	
+	Brabham	Early Buff						
	V. ainen	V. ainen						
7275	25017		6/4/13					
	Sudan	Johnson						
	Grass	Grass						

1st Pods

date	Season	Height	Pods	No.	length	No.	Seed
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9/16		12	121	8-11			
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9/16		16	166	9-11			
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8/28		16	126	6.5-7.5			
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8/28		16	94	6-7			
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8/30		18	142	6-7			
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8/30		16	104	6-7			
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Branches	Leaves	Habit	Color	of mass
No.	Length	No.	Persist	Stems

ma 96	ma 96	V.	P	
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ma 72	ma 72	V	P	
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ma 48	ma 48	O	P	
		H.B		

ma 48	ma 48	O	P	
		H.B		

ma 72	ma 72	O	P	
		H.B		

ma 60	ma 60	O	P	
		H.B		

Leaf Grob Seed Color ^{w/} seed
Red White

Black 9.25 +

Speckled
Grit
markings

Me Men Black Speckled 12.5 +
Grit
markings

Clay. 5.5 +

x

Clay 4.75 +

Clay 6.5 +

Clay 4.75 +

F.C.J. Parents			Date Sown ^{or} Bloom	Flower Color	% Pots mature
No.	Female	Male		White Purple	Sept. 15 Oct. 1
7276-	25017 Sudan grass	Johnson grass	6/4/13		
7277-	25017 Sudan grass	Johnson grass	6/4/13		
7278-	32862 Groit V. sinen	32887 Bratham V. sinen	6/4/13	8/9	+
7279-	32862 Groit V. sinen	32887 Bratham V. sinen	6/4/13	8/11	+
7280-	32862 Groit V. sinen	32887 Bratham V. sinen	6/4/13	8/13	+
7281-	32882 Groit V. sinen	32887 Bratham V. sinen	6/4/13	8/9	+
7282-	32862 Groit V. sinen	32887 Bratham V. sinen	6/4/13	8/11	+
7283-	32862 Groit V. sinen	32887 Bratham V. sinen	6/4/13	N G.	
7284-	32862 Groit V. sinen	32887 Bratham V. sinen	6/4/13	N G.	
7285-	29282 Early Buff V. sinen	29024 White V. sinen	6/4/13	8/26	+

100. Pods

mature Season Height

Pods

No. Length No. Seeds

9/2 20 103 7-8

9/4 18 89 6.5-7.5

9/4 18 74 7-8

9/2 20 96 7-8

9/2 18 92 7-8

9/27 16 37 6-7

Branches Leaves Habit of mass
No. Length No Persist

Leaf Spot	Seed Color	Wg of Seed	Green Pods
White Red		ly.	10/23

L Me Grait 7.5 +

L Me Grait 6.0 +

L Me Grait 5.5 +

L Me Grait 6.75 +

L Me Grait 7.25 +

L Me Buff 2.25 30

F.C.I. No.	Parents		Sown	Date of bloom	Flower Color		% Pods mature
	Female	Male			White	Purple	
7286-	29282	29024	6/4/13	8/29		+	Sept. 15 Oct. 1
	Early Buff	White					
	V. sinen	V. sinen					
		Conch					
7287-	29282	29024	6/4/13	8/29		+	
	Early Buff	White					
	V. sinen	V. sinen					
		Conch					
7288-	29282	29024	6/4/13	8/27		+	
	Early Buff	White					
	V. sinen	V. sinen					
		Conch					
7289-	29282	29024	6/4/13	8/30		+	
	Early Buff	White					
	V. sinen	V. sinen					
		Conch					
7290-	29282	29024	6/4/13	8/23		+	
	Early Buff	White					
	V. sinen	V. sinen					
		Conch					
7291-	29267	29282	6/4/13	8/7		+	
	Black	Early Buff					
	V. resqui	V. sinen					
7292-	29267	29282	6/4/13	8/7		+	
	Black	Early Buff					
	V. resqui	V. sinen					
7293-	29267	29282	6/4/13	8/9		+	
	Black	Early Buff					
	V. resqui	V. sinen					
7294-	29267	29282	6/4/13	8/11		+	
	Black	Early Buff					
	V. resqui	V. sinen					
7295-	29267	29282	6/4/13	8/6		+	
	Black	Early Buff					
	V. resqui	V. sinen					

at Pods

Mature Season Height Pods

		No.	Length	No. Seed
9/27	16	13	6.5-7.5	

9/27	12	12	6-7	
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9/27	12	11	6-7	
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9/27	14	12	5-6	
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9/27	14	38	6-7	
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9/4	16	161	10-12	
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9/4	16	105	9-11	
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9/6	16	90	10-13	
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9/6	16	183	10-12	
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9/2	14	101	9-11	
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Branches	Leaves	Habit	Color
			Breadth of mass
No. length	No. Persist		Stems
Ma 108	Ma Me		P
Ma 120	Ma Me	✓	P
Ma 120	Ma Me	✓	P
Ma 108	Ma Me	✓	P
Ma 96	Ma	✓	P
Ma 84	Ma no	✓	P
Ma 84	Ma no	✓	P
Ma 84	Ma no	✓	P
Ma 84	Ma no	✓	P
Ma 84	Ma no	✓	P

Leaf Spot	Seed Color	WA Seed	Run Pods
Red White		0Z	10/23
Me L	Buff Clay	1.00	15
Me L	Clay & Buff	1.00	+
Me L	Buff & Clay	1.00	
Me Me	Clay	1.0	+
Me L	Clay	2.5	x
Me -	Black Many Speckled	8.75	+ 2
Me -	Black Many Speckled	6.75	+ 4
Me -	Black Many Speckled	5.5	+ 5
Me -	Black Many Speckled	12.0	x 1
Me -	Black speckled	7.5	+ 3

F.O.I.	Parents		Sown	Date of bloom	Flower Color		% Pods mature	
	No - Female	Male			White	Purple	Sept. 15	Oct. 1
7296	29282 Early Buff V. pinen	25088 Maroon V. pinen	6/4/13	8/26		+		
7297	29282 Early Buff V. pinen	25088 Maroon V. pinen	6/4/13	8/30		+		
7298	29282 Early Buff V. pinen	25088 Maroon V. pinen	6/4/13	8/29		+		
7299	29282 Early Buff V. pinen	25088 Maroon V. pinen	6/4/13	9/2		+		
7300	29282 Early Buff V. pinen	25088 Maroon V. pinen	6/4/13	8/29		+		
7301	32861 Buff V. pinen Iron	33439 New Era V. pinen	6/4/13	8/2		+		
7302	32861 Buff V. pinen Iron	33439 New Era V. pinen	6/4/13	N G				
7303	32861 Buff V. pinen Iron	33439 New Era V. pinen	6/4/13	8/6		+		
7304	32861 Buff V. pinen Iron	33439 New Era V. pinen	6/4/13	8/7		x		
7305	32861 Buff V. pinen Iron	33439 New Era V. pinen	6/4/13	8/2		+		

2. Pods			
mature	Season	Height	Pods
			No. Length No. Seed
9/22		18	147 6-7
9/23		18	92 7-8
9/23		18	63 7-8
9/27		18	20 6.5-7.5
9/24		18	88 7-8
8/27		16	116 6-7
8/28		16	95 7-8
8/28		16	60 7-8
8/27		18	87 7-8

Branches		Leaves		Habit	Color Breadth of mass
No.	Length	No.	Persist		Stems
Ma	96	Ma	no	HB	P

Ma	96	Ma	no	HB	P
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Ma	96	Ma	no	HB	P
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Ma	96	Ma	no	HB	P
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Ma	96	Ma	no	HB	P
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Ma	60		yes	O	G
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Ma	72	Ma	yes		P
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Ma	42	Ma	no		B
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Ma	48	Ma	no		G
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Leaf	Spot	Seed	Wt of seed	Sum	Total
				Pals	Pals
Red	White		0.2	10/23	
Mr	Mr	Buff & Clay	8.00	25	172

Mr	Mr	Clay & Buff	6.50	48	140
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Mr	Mr	Clay & Buff	3.50	30	93
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Mr	Mr	Buff & Clay	1.25	22	42
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Mr	Mr	Buff & Clay	5.25	42	130
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L	L	New Era	7.75		116
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L	Mr	New Era	6.25	*	95
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L	Mr	New Era	4.00		82
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L	Mr	New Era	5.50		117
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F.C.I. No.	Parents		Date of bloom	Flower Color		% Pods mature	
	Female	male		White	Purple	Sept. 15	Oct. 1
7306-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/6	+		
7307-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	7/31	X		
7308-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/6	+		
7309-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/7	+		
7310-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/7	X		
7311-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/7	X		
7312-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/9	+		
7313-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/11	+		
7314-	32861 Buff V. sinen Iron	33439 Nen Gra V. sinen	6/4/13	8/6	+		
7315-	29282 Early Buff V. sinen	22888 Buff V. sinen	6/4/13	8/6	+		

1st Pods	Season	Height	Pods		
			No.	Length	No. seed.
8/27		16	86	7-8	
8/22		16	101	7-8	
8/30		18	109	6.5-7.5	
8/30		14	65	6.5-7.5	
8/28		14	87	7-8	
8/30		16	109	7-8	
8/30		16	78	7-8	
8/25		22	142	7-8	
9/4		14	81	6-7	
8/30		16	219	4-5	

Branches		Leaves		Habit	Color Breadth of mass
No.	Length	No.	Persist		Stems
Ma	48		No	0	G
Ma	48		No		G
Ma	72	Ma	No		P
Me	60	Me	Me		G
Me	60	Me	Me		G
Ma	60	Ma	No	0	P
Ma	48	Ma	No	0	P
Ma	60	Ma	Me	0	P
Ma	54	Ma	No	0	P
Ma	42	Ma	Yes	B	P

Leaf	Spd	Seed Color	Wt lb	Seed	Green Pods
Red	White			OZ	10/23/13
L	Mr	New Era		5.50	+
L	Mr	New Era		7.00	+
L	Mr	New Era		6.50	+
L	Mr	New Era		5.25	
L	Mr	New Era		6.25	+
L	Mr	New Era		6.75	+
L	Mr	New Era		5.75	24
L	Mr	New Era		8.75	+
L	Mr	New Era		5.0	+
Me	Me	Clay		6.5	+

F.C.I. Parents			Date of Sown	6/room	Flower Color	% Pods mature
No.	Female	Male			White Purple	Sept. 15 Oct. 1
7316-	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	8/2		+
7317-	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	7/29		X
7318-	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	8/6		+
7319-	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	8/2		+
7320-	29282 Early Buff V. sinen	32887 Bratham V. sinen	6/4/13	8/25		+
7321-	33439 Ken Gra V. sinen	25088 Maroon V. sinen	6/4/13	8/7		X
7322-	33439 Ken Gra V. sinen	25088 Maroon V. sinen	6/4/13	7/24		X
7323-	33439 Ken Gra V. sinen	25088 Maroon V. sinen	6/4/13	8/2		+
7324-	33439 Ken Gra V. sinen	25088 Maroon V. sinen	6/4/13	7/31		X
7325-	33439 Ken Gra V. sinen	25088 Maroon V. sinen	6/4/13	7/29		+

1st Pods

mature Season Height

Pods

		No.	Length	No. Seed
8/20	18	263	4-5	

8/19	18	290	5-5.5	
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8/30	16	139	4-5	
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8/27	18	143	5-6	
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9/22	18	66	7-8	
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8/30	18	103	6.5-7.5	
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8/22	14	125	7-8	
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8/25	14	88	7-8	
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8/23	14	94	6-7	
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8/19	16	102	6-7	
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Branches		Leaves		Habit	Breath of mass
No	Length	No.	Persist		
Ma	48	Ma	yes	B	P
Ma	42	Ma	yes	B	P
Ma	42	Ma	yes	B	P
Ma	36	Ma	yes	B	P
Ma	36	Ma	yes	B	P
Ma	48	Ma	yes	B	P
Ma	60	Ma	Me	O	P
Me	36	Ma	Me	A.B	P
Ma	36	Ma	Me	O	P
Ma	48	Ma	yes	O	P

Leaf	Spot	Seed color	wt. b Seed	Grain
White	Red		0Z	10/3/13
Mr	L	Clay	7.75 +	—

Mr	Mr	Clay	8.25 +	—
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Mr	L	Clay	4.25 +	—
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Mr	Mr	Clay	4.50 +	—
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Mr	Mr	Brabham	4.20	22
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Mr	Mr	New Era	5.50 +	—
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Mr	L	New Era	8.50 +	—
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Mr	Mr	New Era	5.50	16
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Mr	L	New Era	6.00 +	—
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Mr	Mr	New Era	7.00 +	—
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F.C.D. Parents			Date of Sown bloom		Flower Color	% Pods mature
No.	Female	Male			White Purple	Sept. 15 Oct. 1
7326-	33439 Ken Era V. sinen	25088 Maroon V. sinen	6/4/13	7/26	X	
7327-	33439 Ken Era V. sinen	25088 Maroon V. sinen	6/4/13	7/28	X	
7328-	33439 X Ken Era V. sinen	25088 Maroon V. sinen	6/4/13	8/17	+	
7329-	33439 Ken Era V. sinen	25088 Maroon V. sinen	6/4/13	7/28	X	
7330-	33439 Ken Era V. sinen	25088 Maroon V. sinen	6/4/13	8/4	+	
+7331	29267 Black V. asquii	32861 Buff V. sinen Iron	6/4/13	8/27	+	
+7332	29267 Black V. asquii	32861 Buff V. sinen Iron	6/4/13	8/27	+	
7333-	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	7/31	X	
7334-	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	7/29	+	
7335-	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	8/4	+	

1st. Pods				
mature	Season	Height	Pods	
			No.	Length No. Seed
8/18		16	189	7-8
8/21		18	111	6.5-9.5
9/2		14	90	7-8
8/22		16	132	6.5-7.5
8/27		16	119	7-8
9/23		14	50	10-12
9/23		14	85	9-11
8/23		16	91	7-8
8/22		16	81	6.5-7.5
8/30		14	62	6.5-7.5

Branches		Leaves		Habit	Color Beneath	of mass stems
No.	Length	No.	Perist			
Ma	48		yes	0		P

Ma	60	Ma	yes	0		P
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Ma	52	Ma	yes	0		P
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Ma	48	Ma	Me	H.B		P
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Ma	48	Ma	yes	H.B.		G
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Ma	96	Ma	No	V.		G
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Ma	96	Ma	No	V		G
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Ma	48	Ma	No	B		P
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Ma	60	Ma	No	B		P
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Ma	60	Ma	No	B		P
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Leaf	Seed	Color	Seed	Price
Red	White		100.00	1 1/2 3/4
Me	Mr	New Era	9.00	47

Me Mr New Era 7.25 +

Me Mr New Era 6.5 +

Me Mr New Era 9.25 +

Me Mr New Era 7.25 +

Me Mr Black 4.50
Some
mottled

Me Mr Black 6.50
Some
mottled

- - Buff 6.25 +

- - Buff 5.0 +

- - Buff 3.75 +

F.C.I. No.	Parents		Sown	date OF bloom	Fl. Color	% Pods mature	
	Female	Male				Purple	White
7336	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	8/4	+	Sent. 15	Oct. 1
7337	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	8/2	+		
7338	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	7/31	+		
7339	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	7/24	+		
7340	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	8/4	+		
7341	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	N G			
7342	29282 Early Buff V. sinen	29262 Blackeye V. sinen	6/4/13	8/2	+		
7343	32861 Buff V. sinen Iron	33439 New Era V. sinen	6/4/13	8/4	+		
7344	32861 Buff V. sinen Iron	33439 New Era V. sinen	6/4/13	8/4	+		
7345	32861 Buff V. sinen Iron	33439 New Era V. sinen	6/4/13	8/4	+		

1st Pot

Mature Season Height Pods

		No	Length	No. Seeds
8/28	14	105	6-5-7-5	

8/27	14	84	7-8	
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8/27	14	80	7-8	
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8/15	16	105	7-8	
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8/28	16	88	7-8	
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8/28	18	132	6-7	
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9/2	16	115	6-7	
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8/27	16	101	6-7	
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8/30	16	149	6-7	
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Branches	Leaves	Habit	Color Breadth of mass
No. Length	No Persist		Stems
Ma 48	Ma No	B	P

Ma 48 Ma No B P

Ma 48 Ma No B P

Ma 48 Ma No B P

Ma 48 Ma No B P

Ma 72 Ma No H.B. P

Ma 60 Ma yes O P

Ma 48 yes O P

Ma 48 yes O P

Leaf	Grd	Seed Color	W8 of Seed	$10\frac{21}{13}$ Green Pole
Red	White		02	
—	—	Buff	6.25	+

—	—	Buff	5.0	+
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—	—	Buff	4.5	+
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—	—	Buff	6.75	+
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—	—	Buff	5.0	+
---	---	------	-----	---

—	—	Buff	7.5	+
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L	Me	Neutra	8.0	+
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me	me	Neutra	7.25	+
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L	L	Neutra	9.75	+
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F.C.I. No.	Parents		Sown	Date of bloom	Fl. Color		% Pods mature	
	Female	Male			Purple	White	Sept. 15	Oct. 1
7346	32861 Buff V. ainen Iron	33439 New Era V. ainen	6/4/13	8/9	+			
7347	32861 Buff V. ainen Iron	33439 New Era V. ainen	6/4/13	7/24	X			
7348	32861 Buff V. ainen Iron	33439 New Era V. ainen	6/4/13	8/15	+			
7349	32861 Buff V. ainen Iron	33439 New Era V. ainen	6/4/13	8/9	X			
7350	32861 Buff V. ainen Iron	33439 New Era V. ainen	6/4/13	8/9	+			
7351	29282 Early Buff V. ainen	22888 Buff V. catjang	6/4/13	8/4	+			
7352	29282 Early Buff V. ainen	22888 Buff V. catjang	6/4/13	8/6	+			
7353	29282 Early Buff V. ainen	22888 Buff V. catjang	6/4/13	7/24	X			
7354	29282 Early Buff V. ainen	22888 Buff V. catjang	6/4/13	7/29	X			
7355	29282 Early Buff V. ainen	22888 Buff V. catjang	6/4/13	7/29	+			

1st P.O.

mature Season Height

Pods

		No.	Length	No. Seeds
8/30	18	120	7-8	

8/28	18	161	7-8	
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9/4	14	47	7-8	
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9/2	16	91	6.5-7.5	
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9/2	18	111	6.5-7.5	
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8/27	16	236	5-6	
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9/2	16	195	5-6	
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8/28	16	165	5-6	
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8/21	16	243	5-6	
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8/19	18	246	5-6	
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Branches	Leaves	Habit	Color Breadth of mass
No. Length	No. Persist		Stems
Ma 48	Ma Me	0	P
Ma 72	Ma Me	0	P
Ma 30	Me Mo	HB	P
Ma 48	Me Mo	H.B	P
Ma 48	Me Mo	H.B	P
Ma 36	Me Mo	H.B	P
Ma 36	Me yes	HB	P
Ma 42	Me Mo	H.B	P
Ma 42	Me Mo	HB	P
Ma 42	Me Mo	HB	P

Leaf	Spot	Seed Color	wt. of seed	10/23/11 Hum Pods
Red	White		0Z	
L	mm	Ken Era	7.5	+

L	mm	Ken Era	10.75	44
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L	mm	Ken Era	3.5	+
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L	mm	Ken Era	5.75	+
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L	mm	Ken Era	6.5	+
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L	mm	Clay	6.0	+
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L	me	Clay	6.0	+
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L	mm	Clay	5.0	+
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—	—	Clay	5.75	+
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		Clay	6.0	x
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—	—	Cl	6.0	
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F.C.D. No.	Parents		Sown	Date of bloom	Fl. Color		% Pods mature	
	Female	Male			Purple	White	Sept. 15	Oct. 1
7356-	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	7/24	x			
7357-	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	8/2	+			
7358-	29282 Early Buff V. sinen	33439 New Era V. sinen	6/4/13	8/25	+			
7359-	29282 Early Buff V. sinen	33439 New Era V. sinen	6/4/13	8/23	+			
7360-	29282 Early Buff V. sinen	33439 New Era V. sinen	6/4/13	9/2	+			
7361-	29282 Early Buff V. sinen	33439 New Era V. sinen	6/4/13	8/25	+			
7362-	29282 Early Buff V. sinen	33439 New Era V. sinen	6/4/13	8/25	+			
7363-	29282 Early Buff V. sinen	33439 New Era V. sinen	6/4/13	8/25	+			
7364-	29282 Early Buff V. sinen	33439 New Era V. sinen	6/4/13	N G				
7365-	32861 Buff V. sinen Vaon	33439 New Era V. sinen	6/4/13	8/14	+			

1st. Pch

mature	Season	Height	No	Length	No. Sech
8/22		20	275	5-5.5	

8/21		16	151	5-6	
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9/22		16	56	6.5-7.5	
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9/13		16	48	6-7	
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10/2		16	13	7-8	
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9/24		16	51	6-7	
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9/24		16	27	6-7	
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9/22		16	82	6.5-7.5	
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8/27		18	101	7-8	
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Branches		Leaves		Habit	Color Breadth of mass
No.	Length	No.	Persist		Stem
Ma	42	Ma	yes	B	P

Ma	54	Ma	yes	B	P
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Ma	72	Ma	yes	O	P
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Ma	72	Ma	yes	O	P
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Ma	72	Ma	yes	O	P
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Ma	84	Ma	yes	O	P
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Ma	72	Ma	yes	O	P
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Ma	72	Ma	yes	O	P
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Ma	48	Ma	yes	O	P
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Leaf	Spot	Seed	Libor	Wd of Seed	Green Pods	Total Pods
Red	White			02		
L	Mr	Clay	8.25	+	—	275
L	Mr	Clay	4.5	+	—	151
L	Mr	New Era	3.00		110	166
L	Mr	New Era	2.25		68	116
L	Mr	New Era	1.00		56	69
L	Mr	New Era	2.25		80	131
Mr	Mr	New Era	1.50		53	80
Mr	Mr	New Era	4.50		104	186
L	Mr	New Era	6.25	+	—	101

F.C.I.	Parents		Sown	Date of bloom	Fl. Color		% Pods mature
	No.	Female Male			P	W	
7366-	32861	33439	6/4/13	7/31	X		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7367-	32861	33439	6/4/13	7/30	+		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7368-	32861	33439	6/4/13	8/2	+		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7369-	32861	33439	6/4/13	N G			
	Buff	Neu Gra					
	V. rinen	V. rinen					
7370-	32861	33439	6/4/13	7/29	+		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7371-	32861	33439	6/4/13	7/29	+		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7372-	32861	33439	6/4/13	8/6	+		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7373-	32861	33439	6/4/13	8/9	+		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7374-	32861	33439	6/4/13	8/2	+		
	Buff	Neu Gra					
	V. rinen	V. rinen					
7375-	32861	33439	6/4/13	7/29	X		
	Buff	Neu Gra					
	V. rinen	V. rinen					

1st Pods

mature Season Height

Pods

No. Length ^{1st} ~~1st~~

8/19 18 173 6.5-7.5

8/22 18 112 7-8

8/20- 16 91 7-8

16

8/27 20 106 6.5-7.5

8/25 16 142 7-8

8/30 18 80 7-8

9/2 16 111 7-8

8/27 18 98 6-7

8/25 16 88 6.5-7.8

Branches		Leaves		Habit	Color Breadth of mass Stems
No.	Length	No.	Persist		
Ma	%	Ma	No		G

Ma	60	Ma	No	0	P
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Ma	72	Ma	yes	0	P
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Ma	72	Ma	yes	0	P
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Ma	72	Ma	Me	H.B	G
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Ma	48	Ma	Me	0	G
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Ma	60	Ma	Me	0	G
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Ma	36	Ma	Me	0	G
----	----	----	----	---	---

Ma	72	Ma	yes	0	G
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Scap Gos	Seed	wt. b Seed	Sum Pols
Red White	Color.	Qz.	10 2 2/13
Me Mu	Nen Era	10.50	29

L Mu Nen Era 7.5 + —

Me Mu Nen Era 6.5 + 21

Me Mu Nen Era 6.50

L Me Nen Era 8.75 + —

L L Nen Era 6.0 + —

Me Me Nen Era 7.5 + —

Me L Nen Era 6.5 + —

Me Me Nen Era 8.0 + —

F.C.I. No.	Parents		Sown	Date bloom	Fl. Color		% Pods mature	
	Female	Male			Purple	White	Sept. 15	Oct. 1
7376-	32861 Buff V. sinen Iron	33439 New Era V. sinen	6/4/13	8/9	+			
7377-	32861 Buff V. sinen Iron	33439 New Era V. sinen	6/4/13	N G				
7378-	32861 Buff V. sinen Iron	33439 New Era V. sinen	6/4/13	7/24	X			
7379-	29282 + Early Buff V. sinen	29281 Buff & white V. sinen	6/4/13	7/31	X			
7380-	29282 + Early Buff V. sinen	29281 Buff & white V. sinen	6/4/13	8/4	See 1			
7381-	29282 + Early Buff V. sinen	29281 Buff & white V. sinen	6/4/13	7/28	See 1 X			
7382-	29282 + Early Buff V. sinen	29281 Buff & white V. sinen	6/4/13	7/31	X			
7383-	29282 + Early Buff V. sinen	29281 Buff & white V. sinen	6/4/13	7/30	See 1 X			
7384-	29282 + Early Buff V. sinen	29281 Buff & white V. sinen	6/4/13	7/29	See 1 X			
7385-	29282 + Early Buff V. sinen	29281 Buff & white V. sinen	6/4/13	8/4	See 1 X			

100 pods

Mature Season Height

Pods

		No	Length	No. Seed
8/2	16	129	6.5-7.5	

8/20	18	185	7-8	
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8/20	18	193	7-8	
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8/29	18	132	6-7	
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8/21	18	197	5-6	
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8/27	18	119	6.5-7.5	
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8/21	18	140	7-8	
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8/27	18	145	6.5-7.5	
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8/28	16	95	7-8	
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Seed	Grub	Seed Color	Seed	Wt g	Green Pods
Wm	Wm	Wm	Wm	9.25	10/23/13

Wm	Wm	Wm	Wm	12.75	18
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-	-	Buff eye	8.75	+	-
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-	-	Buff eye	7.0	+	-
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-	-	Buff eye	10.5	+	-
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-	-	Buff eye	6.5	+	-
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-	-	Buff eye	7.5	+	-
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-	-	Buff eye	8.25	+	-
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-	-	Buff eye	5.25	+	-
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F.C.O. Parents		Sown	Date bloom	F. Color	% Pods mature
No.	Female	Male		Purple White	Sept. 15 Oct. 1
7386	29282	29281	6/4/13	8/4	+ seed
x	Early Buff V. sinen	Buff & White V. sinen			
7387	29282	29281	6/4/13	7/26	x seed +
+	Early Buff V. sinen	Buff & White V. sinen			
7388	29282	29281	6/4/13	8/6	+ seed +
+	Early Buff V. sinen	Buff & White V. sinen			
7389	29282	29281	6/4/13	8/12	+ seed
	Early Buff V. sinen	Buff & White V. sinen			
7390	29282	29281	6/4/13	7/30	+ seed
	Early Buff V. sinen	Buff & White V. sinen			
7391	27502	32862	6/4/13	8/28	+
	Black V. catgung	Grout V. sinen			
7392	27502	32862	6/4/13	9/1	+
	Black V. catgung	Grout V. sinen			
7393	27502	32862	6/4/13	N G	
	Black V. catgung	Grout V. sinen			
7394	27502	32862	6/4/13	8/30	+
	Black V. catgung	Grout V. sinen			
7395	27502	32862	6/4/13	N G	
	Black V. catgung	Grout V. sinen			

Pod pods

Mature Season Height

Pods

8/28 18 No. Length No. Seed
102 6.5-7.5

8/20 162 7-8

9/4 44 6-7

9/4 14 52 7-8

8/25 14 118 6.5-7.5

9/22 18 78 6-7

9/22 22 165 6.5-7.5

14

9/22 18 168 7-8

Branches	Leaves	Habit	Color Breadth of mass
No	Length	No.	Persist
ma	60	ma	no
			0
			P

ma	60	ma	no
			0
			P

ma	60	ma	no
			0
			P

ma	60	ma	no
			0
			P

ma	60	ma	no
			0
			P

ma	60	ma	yes
			0
			G

ma	60	ma	yes
			0
			G

ma	60	ma	yes
			0
			G

Leaf	Gro	Leaf color	Leaf	Seen
Red	White		0Z	10/25/13
Me	Mu	Buff eye	5.5	+

—	—	Buff eye	9.0	+
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—	—	Buff eye	2.75	+
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Me	Mu	Buff eye	3.25	+
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—	—	Buff eye	6.25	+
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Me	lv	Gro	3.50	29
		Purplish		

Me	Me	Gro	7.50	79
		Purplish		

Me	Mu	Gro	7.75	175
		Purplish		

F.C.D. No	Parents		Sown	Date of bloom	Fl. Color		% Pods mature
	Female	Male			P	W	
7396	29024 White V. riner	29282 Early Buff V. riner	6/4/13	8/21	+		
7397	29024 White V. riner	29282 Early Buff V. riner	6/4/13	8/28	+		
7398	29024 White V. riner	29282 Early Buff V. riner	6/4/13	8/28	+		
7399	29024 White V. riner	29282 Early Buff V. riner	6/4/13	8/24	+		
7400	29024 White V. riner	29282 Early Buff V. riner	6/4/13	8/23	+		
7401	33439 Nun Gra V. riner	25088 Maroon V. riner	6/4/13	8/2	+		
7402	33439 Nun Gra V. riner	25088 Maroon V. riner	6/4/13	8/2	+		
7403	33439 Nun Gra V. riner	25088 Maroon V. riner	6/4/13	8/9	+		
7404	33439 Nun Gra V. riner	25088 Maroon V. riner	6/4/13	8/9	+		
7405	33439 Nun Gra V. riner	25088 Maroon V. riner	6/4/13	8/6	+		

1st Pods

mature	Season	Height	Pods		
			No.	Length	No. Seed
9/9		14	174	5.5-6.5	
		14	112	6-7	
9/20		1			
9/20		14	261	6-7	
9/13		16	89	5.5-6.5	
9/13		16	114	5.5-6.5	
8/27		18	106	6.5-7.5	
8/25		16	117	6.5-7.5	
8/30		18	130	7-8	
8/28		16	106	6-7	
8/28		18	111	6.5-7.5	

Branches		Leaves		Habit	Color Breadth of mass
No.	Length	No.	Persist		stems
Ma	84		No	V	P
Ma	96	Ma	No	V	B
Ma	96	Ma	No	V	
Ma	72	Ma	No	O	P
Ma	60	Ma	No	O	P
Ma	36	Ma	No	O	P
Ma	42	Ma	No	O	P
Ma	48	Ma	No	O	P
Ma	48	Ma	No	O	P
Ma	48	Ma	No	O	P

Leaf	Grass	Seed Color	Wt. of Seed	Green Pods	
Red	White		OZ	10/23/13	
L	Mn	Clay Buff	8.0	+	
L	Mn	Clay Buff	5.5	+	
Mn	Mn	Buff Clay	11.25	46	
H	Mn	Clay Buff	3.5	+	
Mn	Mn	Clay Buff	5.5	+	
Mn	Mn	New Era	6.25	+	
Mn	Mn	New Era	7.5	+	
Mn	Mn	New Era	7.25	+	
Mn	Mn	New Era	6.25	+	
Mn	Mn	New Era	6.75	+	

F.C.D. Parents			Date Sown bloom		Fl. Color	% Pods mature	
No.	Female	Male			Purple White	Sept. 15	Oct. 1
7406-	33439 Ken Gra V. ainen	25088 Maroon V. ainen	6/4/13	8/4	+		
7407 -	33439 Ken Gra V. ainen	25088 Maroon V. ainen	6/4/13	N G			
7408 +	29024 White V. ainen	29282 Early Buff V. ainen	6/4/13	8/29	+		
7409 +	29024 White V. ainen	29282 Early Buff V. ainen	6/4/13	8/30	+		
7400 -	29024 White V. ainen	29282 Early Buff V. ainen	6/4/13	8/29	+		
7411 +	29024 White V. ainen	29282 Early Buff V. ainen	6/4/13	8/30	+		
7412 -	29024 White V. ainen	29282 Early Buff V. ainen	6/4/13	8/30	+		
7413 +	29024 White V. ainen	29282 Early Buff V. ainen	6/4/13	8/23	+		
7414 -	29024 White V. ainen	29282 Early Buff V. ainen	6/4/13	8/27	+		
7415 - +	22888 Buff V. Catgany	29292 Black. V. ainen	6/4/13	8/6	+		

1st. Paks

mature Season Height Paks

		No.	length	No. Seeh
8/28	20	135	7-8	

9/23	16	66	7-8	
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10/2	16	58	7-8	
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9/24	14	22	7-8	
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10/2	14	29	7-8	
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9/24	14	69	7-8	
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	14	29	6.5-7.5	
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10/2	14	56	7-8	
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8/28	16	160	5-6	
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Branches	Leaves	Habit	Color Breadth of mass
No. length	No. Persist		Stems
Ma 60	Ma Mo	o	P

Ma 120	Ma Mo	V	P
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Ma 120	Ma Mo	V	P
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Ma 120	Ma Mo	V	P
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Ma 120	Ma Mo	V	P
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Ma 120	Ma Mo	V	P
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Ma 120	Ma Mo	V	P
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Ma 120	Ma Mo	V	P
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Ma 36	Ma Mo	B	P
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Leaf	Seed	wt of Seed	Sum	Total
Grnd	Color		Pods	Pods
Red	White	Cl.	$10\frac{2}{3}$	
Min	Min	Sum Era	8.0	135

Me Min Buff & Clay 3.75 57 123

Me Min Buff & Clay 3.75 133 191

Me Min Clay Buff 1.75 47 69

Me Min Clay 2.00 44 73

Me Min Buff & Clay 4.50 62 131

Me Min Buff & Clay 2.00 44 73

Me Min clay 3.75 78 134

— — clay 4.5 + — 160

F.C.I.	Parents		Sown	Date of bloom	Fl. Color		% Pods mature	
	No.	Female	Male		Purple	White	Sept. 15	Oct. 1
7416	+	22888 Buff V. catjang	29292 Black V. sinen	6/4/13	7/30	+		
7417	+	22888 Buff V. catjang	29292 Black V. sinen	6/4/13	8/2	x		
7418	+	22888 Buff V. catjang	29292 Black V. sinen	6/4/13	7/22	x		
7419	x	22888 Buff V. catjang	29292 Black V. sinen	6/4/13	8/4	+		
7420	+	22888 Buff V. catjang	29292 Black V. sinen	6/4/13	8/2	+		
7421	+	22888 Buff V. catjang	29292 Black V. sinen	6/4/13	8/2	+		
7422	+	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	8/2	x		
7423	x	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	7/22	x		
7424	x	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	7/22	x		
7425	+	29282 Early Buff V. sinen	22888 Buff V. catjang	6/4/13	7/29	+		

1st Pods

mature	Season	Height	Pods
			No. Length No. seed
8/22		18	210 5-6

8/25		16	174 5-6
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8/25		18	232 4.5-5.5
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8/27		20	282 4.5-5.5
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8/27		18	218 4.5-5.5
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8/25		18	225 5-6
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8/27		18	204 5-6
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8/11		18	247 5-6
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8/14		18	253 5-6
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8/23		18	198 5-6
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Branches		Leaves		Habit	Color Breadth of mass Stems
No.	Length	No.	Persist		
Ma	36	Ma	No	B	P
ma	42	Ma	No	B	P 2
Ma	48	Ma	No	B	P 2
Ma	48	Ma	No	B	P 2
ma	48	Ma	No	B	P 2
ma	48	Ma	No	B	P 2
Ma	48	Ma	No	B	P 2
Ma	48	Ma	No	B	P 2
ma	48	Ma	No	B	P 2
Ma	48	Ma	No	B	P 2

Seed	Color	Wt. of seed	
Red	White	0Z	
-	-	Clay	7.25 +
-	-	Clay	5.0 +
-	-	Clay	7.0 +
-	-	Clay	8.5 +
-	-	Clay	7.0 +
-	-	Clay.	6.5 +
-	-	Clay	6.0 +
-	-	Clay.	8.0 +
-	-	Clay	8.0 +
Wm	L	Clay	6.5 +

F.C.O No.	Parents		Date of Sown bloom	Fl. Color		% Pods mature	
	Female	Male		Purple	White	Sept. 15	Oct. 1
7426-	29282	22888	6/4/13	7/22	x		
	Early Buff	Buff					
	V. rinen	V. catjang					
7427-	29282	22888	6/4/13	9/2	+		
	Early Buff	Buff					
	V. rinen	V. catjang					
7428-	29282	32862	6/4/13	8/25	+		
	Early Buff	Groit					
	V. rinen	V. rinen					
7429-	29282	32862	6/4/13	8/27	+		
	Early Buff	Groit					
	V. rinen	V. rinen					
7430-	29282	32862	6/4/13				
	Early Buff	Groit					
	V. rinen	V. rinen					
7431	17261	22876	6/4/13	7/22	x		
	Green	Str. yell.					
	Soy bean	Soy bean					
	Guelph						
7432	17261	22876	6/4/13	N			
	Green	Str. yell.		G			
	Soy bean	Soy bean					
	Guelph						
7433	17261	22876	6/4/13	8/1	+		
	Green	Str. yell.					
	Soy bean	Soy bean					
	Guelph						
7434	21755	32907	6/4/13	7/29	x		
	Brown	Black					
	Soy bean	Soy bean					
	Ageman	Peking					
7435	21755	32907	6/4/13	7/29	+		
	Brown	Black					
	Soy bean	Soy bean					
	Ageman	Peking					

12. P. 625

mature	Season	Height	Pods		
			No.	Length	Persist
8/16		18	222	5-6	

10/2	18	18	7-8
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10/2	18	20	7-8
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10/2	18	38	7-8
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Branches	Leaves	Habit	Color	Breadth of mass
No. Length	No. Persist			Stem
no 48	Ma no	AB ³		P

Ma 60

Ma 60 Ma yr 0 P

Ma 60 Ma yr 0 P

Ma 60 Ma yr 0 P

Leaf	Sp ^o	Seed	Color	wt. of seed	Sum Pods	Total Pods
Red	White			10/31		
—	—	Clay		7.0	+	222

mm	1/4	Grait	1.50	42	60
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mm	1/4	Grait	1.50	24	44
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mm	1/4	Grait	2.75	50	88
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F.C.D. No.	Parents		Sown	Date of bloom	Fl. Color		% Pods mature	
	Female	Male			Purple	White	Sept. 15	Oct. 1.
7436	21755 Brown Soy bean Algerian	32907 Black Soy bean Peking	6/4/13	7/29		X		
7437	21755 Brown Soy bean Algerian	17261 Green Soy bean Guelph	6/4/13	7/15	X			
7438	21755 Brown Soy bean Algerian	32907 Black Soy bean Peking	6/4/13	7/30		+		
7439	21755 Brown Soy bean Algerian	32907 Black Soy bean Peking	6/4/13	7/31		X		
7440	21755 Brown Soy bean Algerian	32907 Black Soy bean Peking	6/4/13	7/30		+		
7441	21755 Brown Soy bean Algerian	32907 Black Soy bean Peking	6/4/13	7/31		X		
7205			8/2		X			

1st. Pods

mature Season Height

Pods

No. Length No. Seed

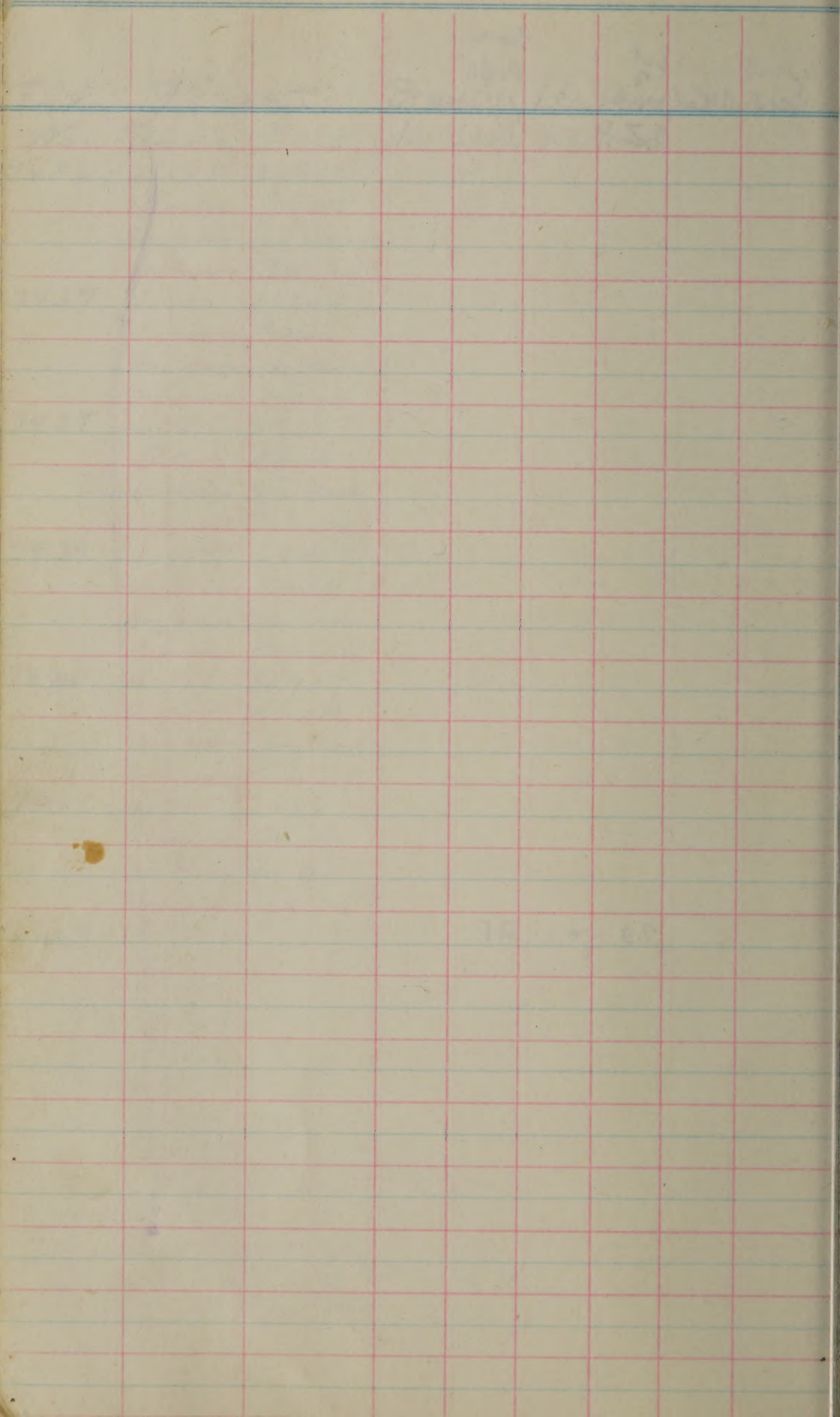
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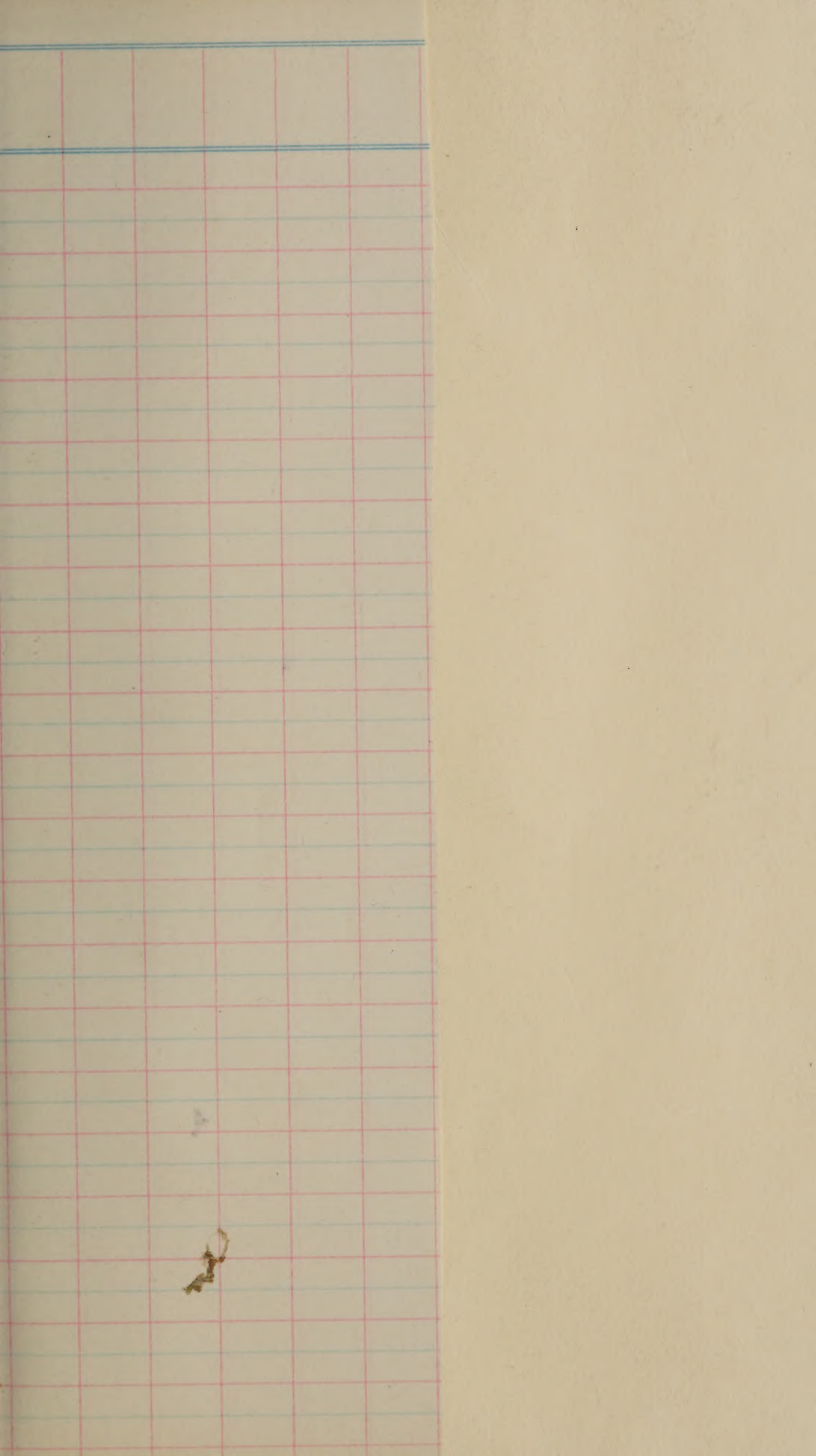
Branches	Leaves	Habit	Breadth of mass
No	Length	No.	Persist.

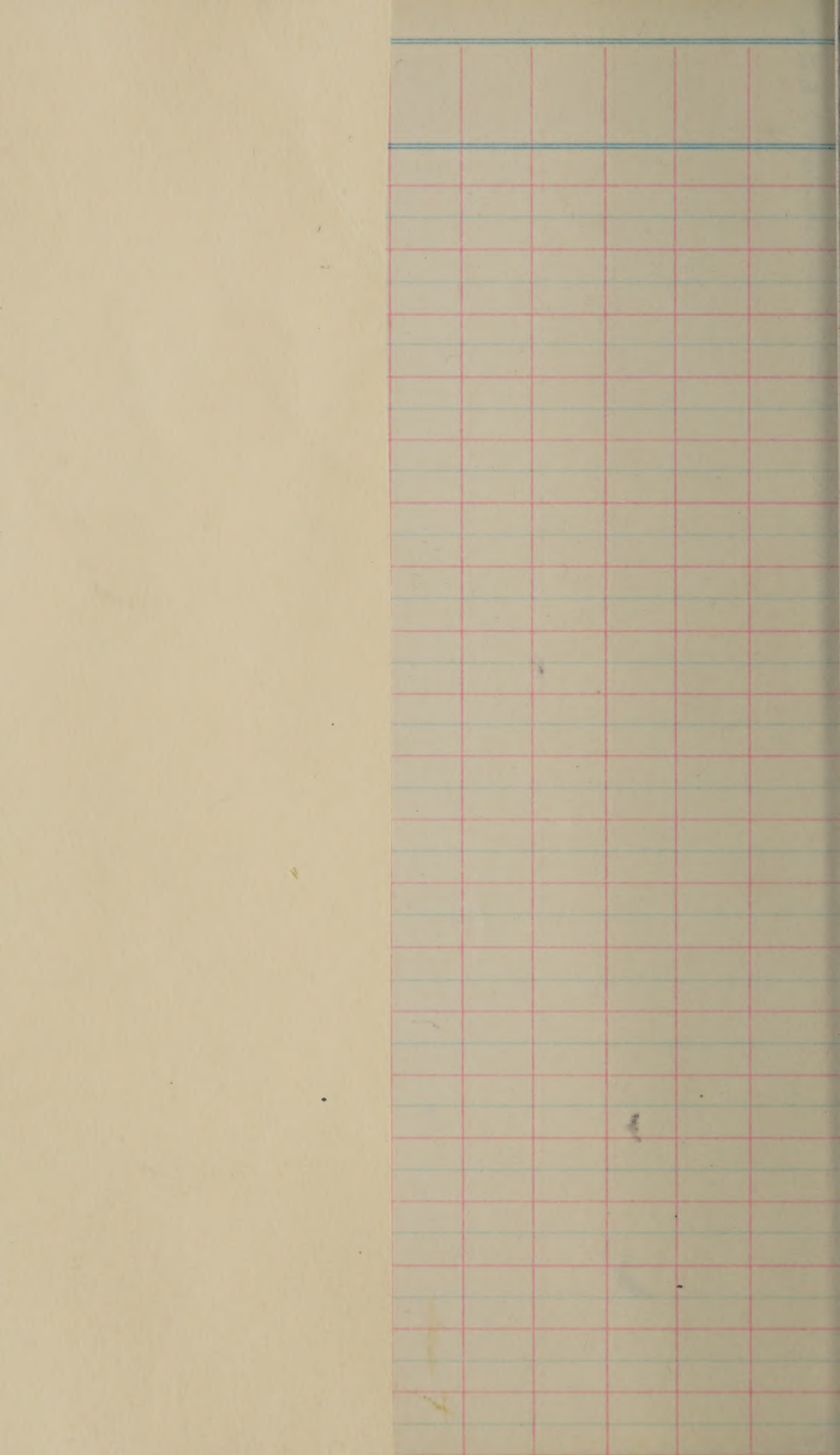
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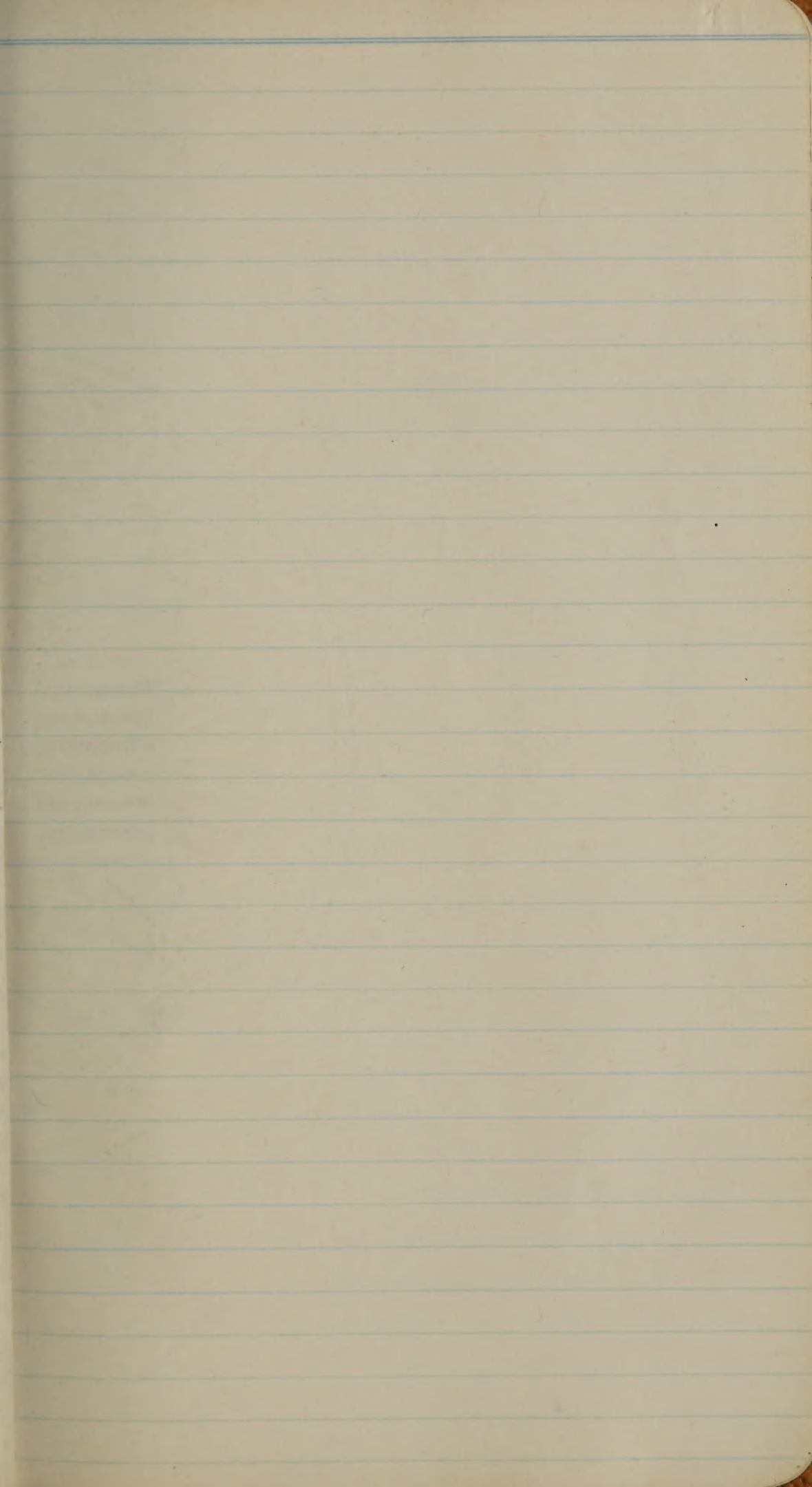
Green
Pods
10/31

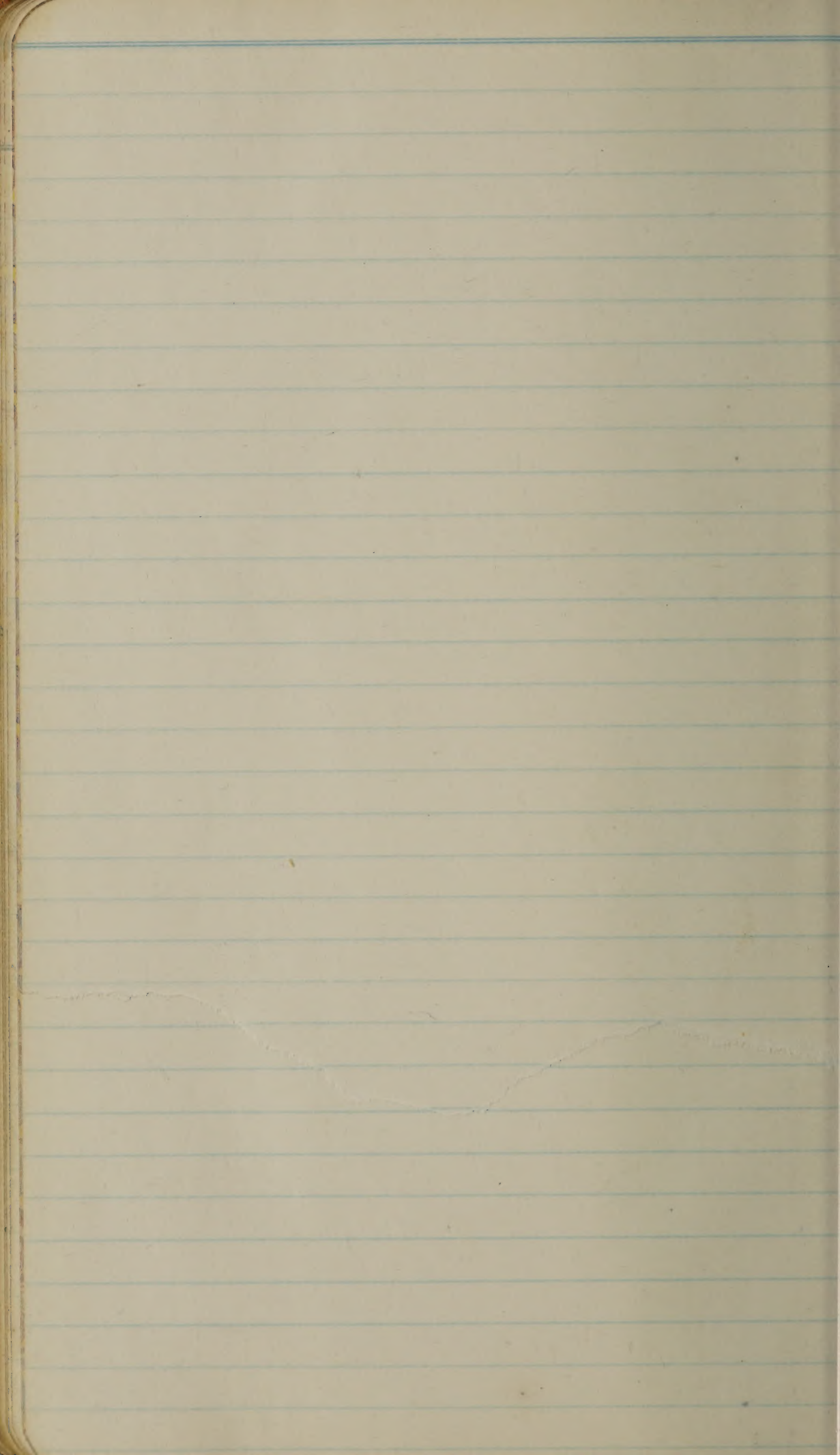
7.0 + 21











30595 - Sect. 13

cut 10/9/13 - stand 85%

30596

cut 10/7/13 - stand 85%

30597

cut 10/7/13 - stand 85%

22379

cut 10/7/13 - stand 85%

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